

ALBERTA

MINES
BRANCH

REPORTS

1945-48

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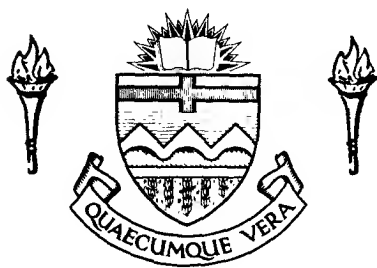
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ANNUAL REPORT
OF
THE MINES BRANCH
OF THE
Department of Lands and Mines
OF THE
PROVINCE OF ALBERTA

1945



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1946

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Edmonton, Alberta,
February 27, 1946.

TO THE HON. N. E. TANNER,
Minister of Lands and Mines.

SIR:

I herewith submit the report of The Mines Branch for the year ending December 31, 1945.

Respectfully submitted,

JOHN CRAWFORD,
Chief Inspector of Mines.

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ANNUAL REPORT OF THE MINES BRANCH FOR THE YEAR
ENDING DECEMBER 31, 1945

(JOHN CRAWFORD, *Chief Inspector*)

The output of coal produced from mines in the Province during the year 1945 was 7,801,248 tons, with a valuation of \$27,699,333. This shows an increase of 373,815 tons over the tonnage produced in 1944, which was 7,427,433 tons, and an increase in valuation of \$957,976.

Notwithstanding a walk-out of miners concerning meat rationing, of three weeks' duration, at most of the larger mines, the output for 1945 is the highest in the history of the Province, and exceeds the previous record output in 1942 by 47,195 tons.

The disposition of coal during the year was as follows:

	Tons
Sold for consumption in Alberta	1,567,940
Sold for consumption in other Provinces	2,931,093
Sold to the United States	162,698
Sold to railroad companies	2,416,803
Used in ship's bunkers	20,394
Used making briquettes	235,998
Used making coke	64,280
Used under colliery boilers	178,467
Used by colliery railroads	2,166
Put to stock	82,894
Put to waste	170,272

The above tonnages include coal lifted from stock and waste heaps, which is not included in the total output.

Of the above output, 1,324,865 tons were produced by 44 strip pits operating in the Province.

In addition to the above output, there were 194 tons reported as mined by farmers under permit, for their own use.

During the year, 4 shale pits produced 55,015 tons of shale and clay, from which 18,463,000 bricks and 9,318 tons of hollow tile were made. The production of shale and clay has increased by 9,655 tons during the year, and the number of bricks made has increased by 2,943,952. A continued increase of hollow tile is also evidenced amounting to 795 tons over the 1944 figure. The above figures indicate that continued progress is being made by the clay products industry.

There were 199 mines producing coal during the year, of which 18 were opened, 36 re-opened, 11 abandoned and 31 closed. At December 31st, 1945, 172 mines were in operation.

There were 9,183 men employed during the month of December, this being an increase of 240 for the corresponding month of 1944.

The number of Emergency Coal Miners' Certificates issued by the Branch during the year is substantially the same as last year, and same have been of great assistance to the mines during this period of man-power shortage. To December 31st, 559 of these certificates were issued.

Samples of mine air were taken during the year by the Inspectors, and sent to the Chemistry Branch of the Department of Mines, Ottawa, for analysis. This has been done in addition to tests made with M.S.A. Methane and other gas detectors.

Samples of coal and coal-dust were collected and forwarded to the Industrial Research Council, University of Alberta, for analysis.

All fatal and serious accidents have been investigated by the Inspectors, who also attended the inquests held in their districts, this being in addition to the regular inspection of the mines. All complaints made to the Department were also investigated.

There were 24 prosecutions instituted for contraventions of The Coal Mines Regulation Act, made up as follows: 1 manager, 1 overman, 2 fireboss', 4 miners, 3 muckers, 7 haulage hands, 1 pusher, 1 timberman, 1 operator, 1 shot-lighter, 1 superintendent, and 1 labourer.

The progress in the use of protective equipment in the mines of the Province during the year is satisfactory. This equipment is reported as 4,673 hard hats, 3,891 pair of safety shoes, 687 pair of goggles, and 238 pair of knee caps. This shows an increase of 340 hard hats and 1,395 pair of safety shoes.

The purchased electrical power by the mines was 42,790,653 k.w. hours. This is an increase of 3,441,269 k.w. hours over 1944.

Progress in the field of installation of new equipment is still going forward in the mines of the Province at a very satisfactory pace. The small mines following the trend of the larger operations, are installing gas and Diesel driven electrical plants mostly for coal-cutting. This tends to cut down the amount of explosives used and produces a better sized product for the market.

During the year all the electrical plants and equipment at the mines were inspected, and at the end of the year there were 74 mines that were electrified, and in addition, 10 small mines have electric mine lamps, signals or telephones.

A great deal of new equipment has been installed in and around the mines during the year. This will be found listed under the District Inspectorate reports. It should be noted that electrification and mechanization of the mines moves forward in very close step. This indicates definitely that a spirit of progress and expansion is rapidly unfolding in the various mining regions of the Province.

A general walk-out of the miners extending over a period of some three weeks occurred during the year. This, together with several small strikes of a local nature and dealing with local issues, caused a considerable loss in production from the underground mines. During this period the stripping operations increased their production to such an extent that the total production for the year showed a significant increase.

I regret to report that the number of fatal accidents for the year was 23, compared with 10 for 1944, showing a sharp increase. This total includes 7 deaths that were caused as the result of an explosion which occurred May 12th at 8:50 a.m., in the No. 1 mine operated by Luscar Coals Ltd., at Luscar. Recovery and investigation are still proceeding in connection with this explosion.

For each fatal accident during the year, 339,185 tons of coal were produced. Six fatal accidents were due to haulage, 4 to falls of rock, 4 to falls of coal, 2 to handling of box cars.

The industry during the year still had its man-power problems to contend with, but as a result of mechanization and co-ordination of effort by all concerned, the year has been a successful one from the point of view of total production and valuation.

During the year, the following changes took place in the Inspectorate:

Mr. James Horne was appointed District Inspector of Mines with headquarters at Drumheller.

Mr. J. D. B. Brown, Inspector at Drumheller, was transferred to the Crowsnest Inspectorate with headquarters at Blairmore.

Mr. E. H. Morgan, Inspector for Crowsnest was transferred to the Lethbridge Inspection District.

Mr. W. E. G. Hall, of the Lethbridge Inspection District, was transferred to the Calgary Inspection District.

Mr. W. G. Heeley, of the Calgary Inspection District, was retained as Inspector-at-Large.

SUMMARY OF INFORMATION, COMPILED FROM THE REPORTS OF THE DISTRICT INSPECTORS

(J. A. DUTTON, *Assistant Chief Inspector, Edmonton*)

The districts assigned to my charge are Whitecourt, Halcourt, High Prairie, and the northern half of Pembina, in which there were 11 mines operating during the year.

In the Pembina Area a new strip mine was opened by H. D. Hunt, Gainford. The coal is eight feet in thickness with from ten to fifteen feet of overburden. Some stripping has already been done, and the mine will be ready for production early in the coming year.

Wm. Robinson of Entwistle, also in the Pembina Area, has reopened mine No. 1596. A new slope has been driven to the lower branch of the upper Pembina seam. The coal is undercut with a compressed air machine and two steam boilers have been erected on the surface to provide power for the hoist and air compressor.

There were 14 complete mine inspections made during the year, in addition to other visits at mines concerning other matters.

There were no fatalities or serious accidents reported during the year.

Permits were issued to all mines for the purchase and use of explosives in mines.

During the year, official visits in the capacity of Assistant Chief Inspector of Mines were made to Calgary, Drumheller, Crowsnest, Coalspur, Mountain Park and Edmonton Areas, to investigate mine accidents, complaints, and for other official purposes.

EDMONTON-CAMROSE INSPECTION DISTRICT

(A. B. HUNTER, *District Office, Edmonton*)

There were no ignitions of gas during the year.

A fire was reported in the old workings of mine No. 447 at Forestburg on January 24th. The matter was investigated, and an attempt made to flood the old workings. The fire was brought under control, but the cover being only about 30 feet, caving took place to the surface, making it impossible to seal it off. It was there-

fore decided to abandon the workings of the old shaft and develop the workings of the new shaft, and maintain a suitable barrier pillar between the old and new shaft workings. The fire will eventually die out when it reaches solid ground.

New installations were made at various mines as follows: Mine No. 1107 Black Nugget Coal Co. Ltd., Dodds, installed a box-car loader, elevator belt for small coal, shaker screen for stoker coal, and a D-4 overhead loader for the strip pit.

Mine No. 1523, Picardville Coal Co., has erected a small tippie and installed a gasoline driven hoist to hoist the coal from slope onto the tippie.

Mine No. 1628, Sinoski & Leuders, installed a small steamer and hoisting engine, also a small air compressor to operate jack hammers.

Mine No. 1322, John Lynass, installed a small electric plant and an electrically operated 3 h.p. Siskol coal-cutter.

Mine No. 1626, J. B. Starky Co. Ltd., has built a new tippie with screening facilities and bins to handle about 800 tons per day. A new wash-house and other buildings have been erected. They have also introduced C. L. U. Sullivan and Jeffrey coal-cutters.

Mine No. 129, Sundance Mines Ltd., have erected a small tippie with screening facilities to handle about 500 tons per day. They also installed a gasoline driven shovel for loading coal into trucks.

Mine No. 615, John Sank, installed a small electric plant and an electrically operated Siskol 3 h.p. coal-cutter.

Mine No. 1635, John Camarta, has installed a small gasoline driven hoist for hoisting from the new slope.

Mine No. 1420, Red Flame Coal Co. Ltd., installed a 10 h.p. Sullivan electric coal-cutter.

Mine No. 1624, Chris. Binder, built a small tippie and installed a gasoline driven hoist to hoist the coal up the slope to the tippie.

Mine No. 1627, Dickinson & Knight, built a small tippie and installed a small gasoline driven hoist, to hoist the coal to the tippie.

There were 109 mines in my inspectorate during the year, 17 of these being temporarily assigned to me and afterwards transferred to other districts, together with two other mines in the Big Valley Area.

Mines Nos. 351, 1427, 1476, 1485, 1606 and 1618 were abandoned.

The J. B. Starky Co. Ltd. opened Mine No. 1626, near Namao, on May 21st. A slope dipping 18° was sunk, and timbered with heavy square sets to the coal seam and connected with an air shaft. Development work has been carried forward, and they are now in a position to produce about 500 tons per day.

Mine No. 1627, Dickinson & Knight, Carbondale, was opened on June 2nd. The coal seam was reached by means of drifts from the surface.

Mine No. 1624, operated by C. Binder near Ryley, was opened June 1st, and a slope sunk to the coal seam, connected with an air shaft.

Messrs. Sinoski and Leuders' mine No. 1628, near Ellerslie, sunk an 8' x 8' hoisting shaft to the coal seam.

C. F. MacLachlan, Mine No. 1632, commenced operations on September 13th, as a strip pit.

Mine No. 1634, F. N. Wiltse, was opened on October 1st. The coal seam was reached by a drift.

Mine No. 1523, Picardville Coal Co., sank a new slope to the coal seam. This was completed about the end of the year.

John Camarta opened Mine No. 1635 on Nov. 15th. A slope dipping about 18° was sunk to the coal seam. An air shaft has also been sunk and a connection is in the course of being driven. It is not expected to start shipping coal until some time in January, 1946.

Mine No. 1636, at Legal, was opened by Chiarello & Martin on November 2nd as a strip pit.

Mine No. 1637, H. H. Wright, Genesee, commenced operations as a strip pit on December 17th.

Mine No. 1640, at Thorsby, was opened by P. J. Offroy on December 22nd, and is more or less a prospect at present.

Mine No. 948, near Rosalind, formerly operated by C. H. Hanson, was taken over by Wm. Jones on June 19th.

Mine No. 953 at Forestburg, formerly operated by Wm. Jones, was taken over by D. H. Wiltse on September 15th.

Mine No. 1232, near Forestburg, formerly operated by O'Brien and Partners, was taken over by Davies & Gormley on April 16th.

Mine No. 129, Cardiff, formerly operated by John Camarta, was taken over on April 30th by the Sundance Mines Ltd., and they are now operating it as a strip pit.

Mine No. 29, Ellerslie, formerly operated by H. W. Smith, was taken over by E. Woytowich and M. Pozniuk on August 19th. They have been practically closed down since that time.

Mine No. 1034, Ellerslie, formerly operated by H. Molzan, was taken over by W. S. Dolinsky & Partners on September 30th.

Mines Nos. 29, White Star, 1628 Sinoski & Leuders, 1349 James Bradley, 1240 W. T. Phillips, and 1595 Yellowknife Transport Co. Ltd., are temporarily closed.

There were two prosecutions for contraventions of The Coal Mines Regulation Act, one against an overman and the other an examiner.

There were nine Domestic Permits to mine coal issued to farmers; 6 of these are in the Pembina Area and 3 in the Ardley Area.

A haulage accident occurred at the Kent Mine on March 15th, causing the death of a driver, and a miner was fatally injured at the Riverdale Coal Co. mine on October 1st by a fall of rock in his working place.

Harry Kurtin, miner, was injured at the working face of the Red Hot Coal Co. Ltd. mine, by a fall of coal on February 16th, and died in hospital March 8th.

Emile Skaskow, surface labourer, was injured when he fell from a box-car at the Great West Coal Co. Ltd. mine on September 26th, and died in hospital on October 28th.

In addition to the above, 18 accidents were reported to my office as follows: 5 from falls of rock, 2 from falls of coal, 5 from haulage, 1 timbering, 1 caused by shot-firing, and 4 from miscellaneous causes.

I made 189 inspections of mines during the year, and presided at the examinations held at Edmonton in May and June for manager, overman, examiner and mine surveyors' certificates.

All serious accidents and complaints made to the Department were investigated.

Ten trade names were issued during the year.

There were no road allowance leases issued.

No coal or mine air samples were taken, but M.S.A. tests were made for Methane at all mines using safety lamps.

A work stoppage, lasting about two weeks, occurred during the month of October, when the miners ceased work at the Union mines in protest to rationing.

Nineteen permits for explosives were issued from the Edmonton office, and several by the R.C.M.P. of which we have no record.

During the year, 87 emergency coal miners' certificates, 14 miners' permits, and 3 provisional miners' certificates were issued.

There are 26 strip pits located in the following areas: Ardley 5, Camrose 5, Castor 3, Edmonton 6, Pembina 2, Rochester 2, and Tofield 3.

CALGARY INSPECTION DISTRICT

(W. G. HEELEY, *District Office, Calgary*)

There were 26 mines in my district, one of which did not operate, but is not abandoned. Three new stripping operations are under way in the Highwood and Sheep Creek areas in addition to one in the Beynon area.

During the year I made 70 regular inspections, besides making three visits to Luscar Mine for recovery work after the explosion.

In addition to the regular inspection visits, I made special visits to investigate serious accidents for The Mines Branch and also for The Workmen's Compensation Board.

I also presided at examinations for second and third class and mine surveyors' certificates.

Two trade names were issued during the year.

Two road allowance leases were granted to Canmore Mines Ltd. and one to Balogh Bros. of Carbon.

During the year there were two prosecutions instituted for contraventions of The Coal Mines Regulation Act.

There were 18 accidents reported to the Calgary office, 8 of which were slight, 8 serious and 2 fatal. In addition, two men entered an old abandoned mine with open flame lanterns, causing an explosion of gas which burned one man severely and caused fatal injuries to a man working outside the mine.

Fifty-one emergency coal miners' certificates were issued during the year.

Twenty-one explosive permits were issued from the Calgary office.

Five samples of coal were sent to the Research Council at Edmonton, and mine air samples were sent to Ottawa, for analysis.

It is interesting to note there were no serious labour troubles during the year. A work stoppage occurred in protest of rationing, lasting about two weeks.

Operations at Mine 1516, Priddis Area, were discontinued owing to a serious inrush of water. A new slope is in progress of being

sunk to the coal seam, some distance from the flooded area. This mine is using Edison electric safety lamps of the K type.

Mine No. 1619, Morley Indian Reserve, operated by B. Ainsley & Sons, has commenced a new slope owing to coal being faulted in the old mine. Edison K lamps are used.

Mine No. 1244, operated by F. Wheatley & Sons, Banff, was discontinued due to an inrush of water. A new mine is being opened one mile west of the old mine.

Canmore Mine No. 2, operated by The Canmore Mines Ltd., is a safety lamp mine using Wolf flame safety lamps at each working face and Edison electric P type cap lamps. They have done a great deal of development work, grading the main slope to a uniform pitch of 15 degrees. A new fan having a capacity of 150,000 cubic feet per minute, has been ordered to replace one of 50,000 cubic feet. During the year pneumatic air picks were introduced into No. 4 mine. Two new boilers of 150-lbs. pressure per square inch are being installed. Considerable prospecting by diamond drilling is being carried on at Georgetown.

Saunders Creek Mine No. 388 is a safety lamp mine using Edison P type cap lamps. The main airway has been retimbered and ventilation improved. This mine is operated by the Bighorn and Saunders Creek Collieries Ltd.

The Alexo Coal Co., Ltd., Alexo, is a safety lamp mine, using Edison electric P type cap lamps. No improvements were made at this mine during the year.

Nordeg Mines Nos. 256 and 1585, operated by Brazeau Collieries Ltd., are safety lamp mines, using Edison electric lamps of the P type. A 30-ton per hour briquetting unit was put in operation during the year, and both No. 1 slopes in each mine were sunk to another lift, a distance of 600 feet.

Owing to pressure of other work, the mines in the Carbon, Wayne and Rosebud areas were taken out of my district in the month of June, but I am pleased to say that all the mines in the district were in good condition both as to airways, ventilation and safe working conditions.

This report is to November 15th, and since that time I have been busy at recovery work at Luscar, where up to the present we have succeeded in recovering two additional bodies.

LETHBRIDGE INSPECTION DISTRICT

(W. E. G. HALL, *District Office, Lethbridge*)

During the year there were 25 accidents reported to this office, this being 7% less than for the same period last year.

Of these accidents, 23 occurred at the two large mines in the district, 11 at Lethbridge Collieries Ltd., Lethbridge, and 12 at Lethbridge Collieries Ltd., Shaughnessy.

The decrease in the number of accidents during 1944 and 1945 can be attributed mainly to more continuous operation of the mines, and also to the increased use of protective clothing.

I regret to report there was one fatal accident during the year.

During the year, 22 mines operated in the Lethbridge Inspectorate, also four shale pits.

Of the 22 mines operating, 1 was re-opened, 1 closed and 3 abandoned. These 3 were closed last year.

There were no changes in operators during the year.

There were 49 inspections made and reported on, in accordance with The Coal Mines Regulation Act, also 37 inspections made and reported on for the Workmen's Compensation Board.

A walk-out took place in the Lethbridge unionized mines for a period of three weeks, due to rationing.

No trade names were registered during 1945.

Two applications for road allowance leases were reported on to the Chief Inspector and granted by the Department of Lands and Mines.

No domestic coal permits were issued for this district during the year.

I am pleased to report there have been no ignitions of gas or mine fires in the district this year.

One sample of coal was taken during the year and forwarded to the Research Council of Alberta for analysis.

Two prosecutions were instituted for contraventions of The Coal Mines Regulation Act, and convictions obtained in each case.

Fourteen explosive permits were issued from this office.

Up to November 15th, 31 emergency coal miners' certificates were issued for this district. There were 8 overman's provisional certificates and 5 examiners' provisional certificates issued during the year.

Six strip coal mines operated during the year, one more than for 1944. The loss of tonnage during the "walk-out" of union miners was to a great extent taken up by the increased production of the strip mines.

At Mine No. 1581, operated by the J. J. Hamilton Coal Company, a gasoline motor has been installed, which is to be connected to the air shaft hoist, in order to comply with The Coal Mines Regulation Act.

At Mine No. 1464, operated by Lethbridge Collieries Ltd., No. 8 Mine, 19 creosoted sets were placed in the top of the main shaft during a holiday period. These sets are skin to skin. A new main cage was made and installed on the west side of the main shaft. A new 6-inch drill hole, 421 feet deep, to permit the introduction of a 220 volt cable, has been completed at this mine.

At Mine No. 1263, the Standard Mine of Lethbridge Collieries Ltd., the main entry for loads has been brushed and graded and relaid with 56 lb. steel, for a distance of 1,500 feet.

At Mine No. 1609, operated by Western Ventures Ltd., a 60-foot conveyor with a 24-inch belt has been installed, together with a 4 ft. by 8 ft. Dillon vibrating screen, also two 50-ton bins have been constructed. This installation is to produce two additional sizes of coal.

CROWSNEST INSPECTION DISTRICT

(E. H. MORGAN, *District Office, Blairmore*)

There were no ignitions of mine gas during the year.

There were no actual mine fires, but there was a fire of unknown origin at the officials wash-house at the Bellevue Mine of West Canadian Collieries Ltd., in May. Seven lockers and the clothes contained in same, were destroyed. Due to the prompt action to deal with the fire, very little damage was done to the rest of the building.

This Inspectorate consisted of 10 mines, 2 of which were opened during 1945, Nos. 1623 and 1440.

There were 66 inspection days, and in addition 27 inspections of places of accident, two days checking re-explosives, and one day on pillar extraction methods.

During the year, 11 prosecutions were instituted and 10 convictions obtained.

There were 4 fatal accidents, all of which were investigated and reported on. There were 36 accidents in all reported to November 15th and 9 to December 31st. All serious accidents were also investigated.

Two trade names were registered during 1945.

The only labour trouble was a couple of days at the Mohawk and Adanac mines over small matters, and the walk-out regarding rationing of about two weeks.

Eight explosive permits were issued.

Up to November 15th, 69 emergency coal miners' certificates were issued and an additional 7 to December 31st. During the year, 14 permits and 7 provisional certificates were also issued.

At the Boisjoli Hill, at Mine 396 of West Canadian Collieries Ltd., a stripping pit was opened in July, and is now in production.

The use of explosives in mining of coal is still increasing in this district, but I am pleased to say no explosives are used in any of the mines below tippie level. Some explosives are used in rock below this, but very sparingly and cautiously, and in most cases under special permit of the Chief Inspector.

The use of protective clothing is satisfactory, all men below ground using hard hats and a fair number of safety shoes, and goggles are being used in a greater number of cases.

The following changes have taken place at various mines:

At Mine 87 of West Canadian Collieries Ltd., Bellevue, two new Denver entry loaders were put into use, one at the face of 9 level entry and the other in the water-level below. A conveyor belt was installed in 146½ room off 8 level North. An endless haulage was installed in 61 district, 5 level. At the cleaning plant a new "Arms" screen, new dust collector system, and a new oil treating plant were installed. They also installed a Cardox charging plant, Cardox being used in cross-pitch work in the lower levels.

At Mine 88 of International Coal & Coke Co. Ltd., Coleman, the pump-room in D level in No. 2 seam has been enlarged and a Harland pumping unit duplicating the existing unit has been installed. The new pump is a 6 stage, 1000 U.S.A. gals. per min. at a 1050 ft. head, driven by a 350 h.p. motor. At the cleaning plant they have a new crusher, framework for de-watering screens, hummer screens,

and conveyors have been erected in preparation for the moving of the Vissac Jig and Raw coal elevator from their present location to new locations in the new wet washery building.

At Mine 133 of Hillcrest-Mohawk Collieries Ltd., Bellevue, No. 1 mine, a Mecco shaker conveyor with a No. 4 compressed air engine drive, with size 2 pans, was installed. Additions on the surface include the replacing of the Marcus screen at the tippie, by a 54-inch rubber belt and a 5 ft. by 12 ft. type 600 Tyrock Screen, driven by a 10 h.p. motor. They are at present installing a dryer for their 2-inch by 4-inch coals; 1,500 K.V.A. capacitors have been put into the main hoist line, and tippie lines for power factor correction. A Sheldon fan was installed at their No. 5 Mine, driven by a 50 h.p. gasoline engine. Near the outcrop of their No. 1 Mine they have installed a compressor operated by an electrical motor of 100 h.p.

At Mine 204 of McGillivray Creek Coal & Coke Co. Ltd., Coleman, prospecting in No. 2 and No. 4 seams on sections 29 and 32 has been carried on during the year and roads built to the locations. A hydraulic disposal plant was installed in the boiler house.

At Mine 396 of West Canadian Collieries Ltd. (Greenhill Mine), a change was made in the haulage on No. 5 level in 1 and 2 seams. The main and tail haulage was moved from No. 1 into No. 2 seam and an endless rope haulage put in No. 1 seam to connect with the endless rope at top of slope. They have installed an Allis-Chalmers de-watering screen at 120 tons per hour to take the place of 2 Tyrock and 2 Dillon screens.

A strip mine was opened at Boisjoli Hill and commenced to deliver coal to the tippie in July. Their present daily output is nearly 400 tons. The No. 1 fan was moved from Cougar North and installed at Boisjoli on the No. 1 seam. A concrete tunnel 200 feet long with a sectional area of 110 sq. feet connects the fan to the mine. This fan will ventilate the North end of 6, 7 and 8 levels for many years, and is a most excellent job.

COALSPUR-MOUNTAIN PARK INSPECTION DISTRICT

(A. Muir, District Office, Edson)

On May 7th a slight heating was observed in No. 2 Panel No. 1 Mine of Luscar Coals Ltd., Luscar, at 5 West. This was apparently caused by spontaneous combustion. Immediate action was taken to bring conditions under control by sealing the panel from both ends.

On May 12th an explosion occurred at the inby end of No. 3 Panel 5 West, and seven men lost their lives. Four of the bodies have been recovered to date. Investigation and recovery work is still continuing.

At Mountain Park Coals Ltd., Mountain Park, Mine 282, two Mecco shaker conveyors have been installed in No. 2 slope. Above ground a 350 h.p. motor has been installed on the No. 1 slope hoist. A new steel sludge dryer building has been erected replacing the original wooden structure, which was destroyed by fire in the fall of 1944. The damage to the main cleaner building and machinery, resulting from this fire, was also repaired at the same time. The boiler room coal bunkers were also rebuilt.

At Luscar Coals Ltd., Luscar, Mine 905, work on installing the 937 K.V.A. turbo-generator unit was completed, and the unit put into service. Two new International trucks of 7 tons each, and a new bulldozer were obtained and put into service. An addition was made to the hospital, and the building was completely renovated. A lump crusher driven by a 15 h.p. motor was installed on the tippie. A new Smart-Turner pump driven by a 150 h.p. flameproof motor was purchased and installed in the upper pump room off No. 1 slope, and was used in de-watering the flooded mine workings. A new Aerovane fan driven by a 20 h.p. flameproof motor, was installed at No. 3 mine to increase and improve ventilation in this mine. A new power line capable of handling 300 h.p. has been installed, and a new road has been built to the Greeg Mine.

At the Cadomin Coal Co. Ltd., Cadomin, Mine 693, a car haul at the tippie was installed. A new hospital is nearly completed. A stoker was installed at the townsite heating plant and a pump room added. A hoist has been installed, 100 h.p., and also a hoist house at Upper West mine, and trestle erected for slope, 90 feet long. A heating boiler was purchased and slope opening started and housed. At upper East mine, two coppus SP300 ventilating fans are installed and 100 feet of 16-inch vent-tune. An addition has been built to the stable, 20 ft. by 24 ft. A strip mine is being opened by trenching, stripping over-burden, and diamond drilling.

At K-D Collieries Ltd., at Kaydee, Mine 1392, a new road is being opened up to a prospect 2½ miles from the tippie.

At McLeod River Hard Coal Co. (1941) Ltd., Mercoal, Mine 846, underground installations are a Gardner-Denver loader in No. 4 level W., and Mecco shaking conveyors in No. 14 level W. and East Counter. Above ground a townsite water supply has been installed, including mains throughout the residential section, a 50,000 gallon water tank, and a pumping station. This provides water for domestic use and fire protection. Accommodation has been provided by a modern building to serve 48 employees. Numerous dwellings have been built on the townsite. A stand-by power plant has been installed, consisting of a 250 h.p. Fairbanks-Morse diesel engine and electric generator.

At The Foothills Collieries Ltd., Foothills, Mine 771, a small compressed air fan for inside ventilation was installed. Three jack-hammers for drilling shot-holes were put in use and experiments made with different types of drills to determine which would be most suitable for this work. A drill hole was put down from the outcrop of the Val d'Or seam to a depth of 336 feet. Work for the installation of a new boiler was started. Railway siding was moved 12 feet to make room for this, and a short conveyor installed to take the lump coal from the end of the lump screen to the box-car loader.

At Sterling Collieries Co. Ltd., Sterco, Mine 769, a new air compressor for drilling in the pit has been installed. This compressor is air-cooled, which does away with water lines. Two locomotives boilers have been obtained, and these are replacing two of the old worn-out boilers.

At Coal Valley Mining Co. Ltd., Coal Valley, Mine 1002, a new tippie is under construction to replace the one destroyed by fire.

At the Lakeside Coals Ltd., Robb Mine 775, a new tippie has been built with two Niagara screens, one for lump coal and one for egg. An Ottumwa box-car loader was repaired, also a portable

Ottumwa was put into service. Four 150 h.p. boilers were repaired and put in service. A Bellis & Morcom engine with a 500 K.W. Westinghouse generator was installed and is now operating. There are 120 P 3 E Model Edison electric cap lamps in use.

Bryan Hard Coal Co. mine at Robb, Mine 1157, was temporarily abandoned, but has been re-opened, and a skeleton tippie has been built. No other new installations have been made.

Eleven mines were operating in this district, one of which has now been abandoned temporarily.

Eight prosecutions were instituted for contraventions of The Coal Mines Regulation Act.

There were 10 fatal and 6 serious accidents reported to this office during the year, which were all investigated and reported on.

Two new trade names were registered during the year.

There were 78 complete inspections made during the year, in addition to other visits to mines on official business. I spent from June 13th to 22nd marking examinations papers in Edmonton.

One sample of coal was taken and sent to the Research Council for analysis, and between May and December mine air samples were sent from Luscar No. 1 Mine to Ottawa, for analysis.

The only labour trouble in this Inspectorate during the year was the general walk-out on account of rationing and a local contract dispute at Robb.

There are at present four strip pits in operation in the district, located at Cadomin, Luscar, Sterco and Coal Valley.

Ten explosive permits were issued from this office for the year 1945.

During the year, 84 emergency coal miners' certificates were issued for this district, and 2 miners' permits.

DRUMHELLER INSPECTION DISTRICT

(J. D. B. BROWN, *District Office, Drumheller*)

An ignition of Methane occurred at the Star Mine of Rosedale Collieries Ltd., on June 23rd at 4 a.m., in 12 room 6 S.8 West. This happened when the night-shift fireboss, K. Radocy, had just commenced to make the inspection of the mine before the day shift came on. He was seriously burned about the face and hands, and while still some distance from the face of 12 room, his carbide lamp ignited the gas which was subsequently found to have issued from a pot-hole in the roof at the point of ignition. Several air samples taken the next day showed substantial amounts of Methane in that and the adjoining rooms. The mine was immediately placed on a safety lamp basis, and this particular section was fenced off until safety lamps could be procured.

No new mine fires have occurred in the district this year. The mine fire which occurred at the Newcastle Mine the latter part of last year has been patrolled once every eight hours, until the seals were broken and investigations were made to establish whether or not the fire was still active. Tests conducted at this time indicated that the fire was inactive, and the area was resealed. It will remain sealed, as this area is worked out and patrols will be kept up

on the stoppings until the whole area surrounding the fire area is abandoned.

The number of mines operating in this district is 37, 2 mines were abandoned, 3 closed, and 1 re-opened.

There were 3 prosecutions during the year, convictions being gained in each case.

No road allowance leases were granted during the year.

There was one fatal accident during the year, to a driver at the Commander Mine. There were 44 accidents reported to this office during the year. The accident rate in the Valley has shown marked improvement during this year, almost 33% reduction, which is due to the earnest campaign carried out by all concerned. This is an important work, and those taking part are to be highly commended for their efforts.

There were 93 inspections made to November 15th, and in addition all accidents were investigated and reported on.

Coal samples and mine air samples were taken and forwarded to Edmonton and Ottawa for analysis. Inspections of the fire area at Newcastle Mine were made, and new equipment of a nature or type that was experimental was checked before being put into use.

There were two trade names registered during 1945.

Sixteen samples of dust were taken from various roadways and forwarded to the Research Council at Edmonton.

During the year, 33 explosive permits were issued.

There were 142 emergency coal miners' certificates issued from this district.

The strip mines in this district have experienced a very busy year. They have worked steadily throughout, with the exception of periods during the year when road conditions were poor. Most of these mines are situated where road conditions are not of the best.

During the year, air slopes have been completed at the following mines: Empire Mine, Maple Leaf Mine, Midland Mine, Red Deer Valley Mine, Hy-Grade Mine. These slopes have improved the ventilation at these mines to a great extent.

The Maple Leaf Mine was temporarily closed and two months later re-opened, but new entries were commenced from the surface beside the old entrance, and they intend to open up on a virgin stretch of their extensive lease.

The Royal Commission paid two visits to the mines in this district, and briefs were presented by the various interests here.

During the slack period in March many of the mines utilized the time to do repair work which had accumulated in the busy winter season.

The Rosedale Collieries Ltd. have started to prospect for coal in the No. 5 seam with the intention of instituting mechanization if the area warrants the outlay.

At the first of the year man-power shortage was acute, but toward late fall labour was ample. All the mines in the district have been working steadily with the exception of those up Willow Creek. The Foy mine has not worked since March and the Burnbrite has worked very little. The Reliance Mine, operated by J. Hamilton, worked to April 1st, and then he did some repair work.

The mines lying outside the Valley appear to be suffering from the man-power shortage more than those in the Valley, and the demand for coal at these points is strong, trucks sometimes waiting for a day at a time for coal. At Hanna the strip mines are almost out of coal due to the extra demand and their inability to have more coal stripped by busy contractors. The only exception is the Ironside Mine, which had about 1,500 tons stripped on my last visit.

The Red Deer Valley Coal Co. Ltd., Nacmine, Mine 402, has built and installed a 30-ton bin at the new slope, and erected a conveyor from this bin to the tippie. The conveyor, a belt type, is 300 feet long. They have also transferred two GE 20 Duckbills and two coal-cutting machines (one AB 50 h.p. and one 612 50 h.p.), together with two 5 h.p. Mecco fans.

The Brilliant Coal Company, Drumheller, Mine 1258, has installed a trolley locomotive, a GE 8-ton 80 h.p., with a MG set for same. They have also equipped the new machine shop, each machine having its individual power supply. They have equipped the lamp-house, wash-house and tippie with Crane heaters. They recently installed a Sheldon Axial Flow Fan, 54-inch, which for the time being is acting as a booster fan, but the intention is to erect this fan at the surface later.

The Commander Mine, Mine 422, has built two powder magazines, one for stoppage and the other for the daily supply. They have installed an automatic door, and intend to have more of these built later.

The Rosedale Collieries Ltd., Star Mine, has installed a Goodman battery locomotive (4-ton type) at the No. 5 seam workings. This locomotive is used to haul the produce of the new seam on the surface to the tippie.

Midland Coal mining Co. Ltd., Drumheller, Mine 367, has installed a Goodman 7-ton 30 h.p. battery locomotive and built a charging station for same.

Murray Collieries Ltd., East Coulee, Mine 1491, has installed an Atlas 4½-ton storage battery locomotive, and also built a charging station for same. They have installed a 30 h.p. Sturtevant fan, which replaced the old Sirroco type fan they used before.

The Western Crown Mine has installed a Cardox plant and built a new wash-house, and also installed one G 12 Duckbill. They have built a 40-ton bin for pea coal, also an automatic dump for their new 5-ton mine cars, and they can now dump both the new and the old type mine cars, as they have a dump for each.

They have completed four new houses, all built of fireproof asbestos sheeting and shingles, besides installing a water system for the use of the houses and the mine plant.

Newcastle Collieries Ltd. has installed a Goodman shortwall under-cutter, also three Pyranol transformers 50 K.V.A. each, besides a Sullivan CLU Arcwall coal-cutting machine, which had been previously in use at the Maple Leaf Mine.

The Maple Leaf Minerals Ltd., Mine 728, have installed their fan at the new site close to the entrance to the old mine.

A new wash-house was completed at the Arcadia Coal Mines Ltd., Mine 1589, and a new truck purchased.

The Castle Coal Co. Ltd. has built a tippie and installed the machinery necessary to clean and size the coal.

The Standard Coal Co. Standard, Mine 1265, has installed one Sullivan 10 B under-cutter, coal-cutting machine, and has electrified their plant, doing away with the old steam plant.

A new air compressor has been installed at the East Trochu Coal Co. at Trochu, Mine 710.

(JAMES HORNE, *District Office, Drumheller*)

This report is to supplement that of Mr. Brown, who covered to November 15th.

There was a fatal accident on December 17th at the Commander Mine.

The demand for miners is not so acute in this district at present, due perhaps to the increased number of veterans with mine experience returning to the mines, some to their former jobs.

Rosedale Collieries Ltd., No. 5 seam, is now past the prospecting stage and is a promising operation. They expect to start a strip operation shortly to augment their low tonnage.

Red Deer Valley Coal Co. Ltd., Nacmine, Mine 402, has installed a new slope 1,000 ft. main and tail haulage system, powered by a 15 h.p. Mecco motor.

Rosedale Collieries Ltd., Rosedale, Mine 346, has installed a 6ft. Stein fan complete with 15 h.p. motor of the enclosed type, reversing switch and compensator, voltage 440, and have built a fan house 16 ft. by 8 ft.

The Commander Mine has installed two 24 h.p. Atlas 7-ton battery locomotives, permissible motors driven by a battery of 48 cells M.L. 25-D Exide power clad, rated at 44.5 K.W. hrs. capacity; two Hertner Electric Company M.G. sets of 15 h.p. each; 10 K.W. hrs. capacity, housed in steel casing, and has provided a battery charging and changing station.

ELECTRICAL INSPECTION OF MINES

(BURTON TAIT, *Electrical Inspector of Mines*)

At the end of the year, there were 74 mines using electrical energy. In addition to these, 10 small mines use electric cap lamps and battery charging apparatus. Some also have electrical signals. All shot-firing in the mines is now done electrically.

The following mines started using electrical equipment during the year: J. B. Starkey Co. Ltd., Carbondale; John Lynass, Delburne; John Sank, Heisler.

Electrified mines closed during the year were: Jasper Coal Ltd., Drinnan; Kent Coal Co. Ltd., Edmonton; Gunderson Brick & Coal Co. Ltd., Redcliff; Majestic Mines Ltd., Taber; Reliance Mine, Delia.

All operating mines using electricity have been inspected during the year, the majority having received two inspections. There were 122 complete inspections and 14 partial inspections made.

No time was lost from accidents or mine fires caused by the use of electricity.

Major electrical installations in and about the mines during the year are as follows:

Coal Valley Mining Co. Ltd., Coal Valley, rebuilt their plant, which was destroyed by fire last year. A 500 KVA 2300 volt Allis-Chalmers generator was installed in the new power house. In addition to the lighting, motors totalling 640 h.p. have been installed. Wiring in building is in rigid conduit.

Lakeside Coals Ltd. rebuilt their plant at Robb, the old plant having been destroyed by fire. A 500 KVA 2300 volt Westinghouse generator has been installed in the new power house. In addition to the lighting, pole lines, transformers, etc., motors totalling 293 h.p. have been installed. Wiring in buildings is in rigid conduit.

Mountain Park Coals Ltd. installed a 350 h.p. motor and magnetic accelerating panel on their No. 1 hoist, replacing the 200 h.p. motor and drum control formerly in use.

International Coal & Coke Co. Ltd. installed a stand-by pumping unit in their pump room in the mine, powered by a 350 h.p. 2300 volt motor with flameproof controls.

The Black Nugget Coal Co. Ltd. converted a 30B Bucyrus shovel from Diesel to electric with a 75 h.p. 2300 volt motor.

The new Star-key Mine at Carbondale installed one CLU Sullivan combination coal-cutter, one Jeffries undercutter, hoist, fans, pumps, screening equipment, etc. Total h.p. of motors installed was 215.

Midland Coal Mining Co. Ltd., Drumheller, installed underground, two permissible type Sullivan coal-cutters and one Mancha 5-ton permissible battery locomotive.

Brilliant Coal Co., Drumheller, installed an 8-ton General Electric trolley locomotive and motor-generator set. Motor, 75 h.p., 2300 volt; generator, 50 KW, 250 volt.

Rosedale Collieries Ltd., Rosedale, installed one Goodman 7-ton battery locomotive and one Morgan Gardiner trolley locomotive.

Murray Collieries Ltd. added another 4½-ton Atlas battery locomotive for gathering purposes.

Empire Mine of the Saskatchewan Federated Co-operatives Ltd., East Coulee, installed a 5-ton Mancha battery locomotive and charging equipment.

Brazeau Collieries Ltd., Nordegg, installed an air compressor with a 300 h.p. 2300 volt synchronous motor.

There have been numerous smaller installations during the year. Apart from lighting and heating, the horse power of motors installed during 1945 in and about the mines, including those listed above, totals 3,535 h.p.

Total h.p. of motors in use (connected load): Underground, 14,166; above ground, 37,852; total, 52,018. Number of electric coal-cutters in use, 147; number of battery locomotives in use, 32; number of trolley locomotives in use, 15.

The majority of the electrified mines in the Province are supplied with power from central stations. We have in addition, local steam plants with a total capacity of about 9,030 KVA and Diesel and gasoline plants with a total capacity of about 475 KVA.

Power factor correction has received some attention by the coal companies this year, and several have installed capacitors, some underground and some above ground.

Several small mines are planning on installing electric coal-cutters in their mines. Siskol electric coal-cutters seem to be their choice, and some orders for these machines have already been ordered.

The Siskol is powered by a 3 h.p. motor.

Good co-operation has been received from the mining officials during the year, and good work is being done by the Mine Electricians, both in new installations and in the maintenance of existing installations.

Considerable interest is being shown of late by mining officials in the greater use of electrical machinery underground, particularly for haulage purposes on main and secondary haulage roads.

ANNUAL PRODUCTION OF COAL FROM MINES IN THE PROVINCE OF ALBERTA

The following table is taken from a report prepared by the Dominion Bureau of Statistics and published in "Coal Statistics for Canada" for the year 1944:

Calendar Year	Short Tons	Value
1886	43,220	\$ 81,112
1887	74,152	157,577
1888	115,124	183,354
1889	97,364	179,640
1890	128,753	198,298
1891	174,131	437,243
1892	178,970	460,605
1893	230,070	586,260
1894	184,940	473,827
1895	169,885	382,526
1896	209,162	581,832
1897	242,163	630,408
1898	315,088	787,720
1899	309,600	774,000
1900	311,450	778,625
1901	340,275	850,687
1902	402,819	960,601
1903	495,893	1,117,541
1904	661,732	1,404,524
1905	931,917	1,993,915
1906	1,246,360	2,614,762
1907	1,591,579	3,836,286
1908	1,685,661	4,127,311
1909	1,994,741	4,838,109
1910	2,894,469	7,065,736
1911	1,511,036	3,979,264
1912	3,240,577	8,113,525
1913	4,014,755	10,418,941
1914	3,683,015	9,350,392
1915	3,360,818	8,283,079
1916	4,559,054	11,386,577
1917	4,736,368	14,153,685
1918	5,972,816	20,537,287
1919	4,933,660	18,205,205
1920	6,907,765	30,186,933
1921	5,909,217	27,246,514
1922	5,990,911	24,351,913
1923	6,854,397	28,018,303
1924	5,189,729	18,884,318
1925	5,869,031	20,021,484
1926	6,503,705	20,886,103
1927	6,934,162	21,982,058
1928	7,336,330	23,532,414
1929	7,150,693	22,928,182
1930	5,755,528	18,063,225
1931	4,564,015	13,342,675
1932	4,870,648	13,526,309
1933	4,718,788	12,307,258
1934	4,753,810	12,556,099
1935	5,462,894	14,094,795
1936	5,696,960	14,659,705
1937	5,562,839	14,563,911
1938	5,251,233	13,698,470
1939	5,519,208	14,415,281
1940	6,203,839	16,377,959
1941	6,969,962	19,382,471
1942	7,754,053	22,624,410
1943	7,676,726	24,030,686
1944	7,428,708	26,814,957
Total	203,876,788	\$628,426,867

NOTE: Production quantities and values prior to 1919 refer to sales and colliery consumption. From 1919 to 1944 the mine output figures are given.

ANNUAL CONSUMPTION OF COAL IN CANADA, 1902-1944

The following revised table is taken from the report issued by the Dominion Bureau of Statistics for the year 1944:

Year	Canadian*		Imported coal "Entered for consumption"				Total		Per Capita Tons
			From U.S.A.		From Great Britain				
	Short tons	%	Short tons	%	Short tons	%	Short tons		
1902	5,376,413	53.1	4,656,286		101,726		4,734,559	46.9	10,110,972
1903	6,005,735	47.3	6,520,931		184,593		6,678,524	52.7	12,684,185
1904	6,697,183	47.9	7,238,869		85,687		7,297,482	52.1	13,994,665
1905	7,032,661	49.4	7,233,738		68,500		7,215,446	50.6	14,249,107
1906	7,927,560	50.5	7,787,338		67,014		7,758,325	49.5	15,685,885
1907	8,617,352	45.0	10,588,697		54,325		10,549,503	55.0	19,166,855
1908	8,156,478	47.3	10,203,335		97,514		10,195,424	52.7	19,351,902
1909	8,913,376	47.9	9,805,253		67,671		9,711,826	52.1	18,625,202
1910	10,532,103	50.2	10,545,451		51,541		10,437,123	49.8	20,970,226
1911	9,822,749	40.5	14,510,129		48,963		14,434,949	59.5	24,247,698
1912	12,385,696	46.0	14,557,124		38,668		14,519,104	54.0	26,934,800
1913	13,450,158	42.6	18,145,769		37,825		18,132,387	57.4	31,582,545
1914	12,214,403	45.5	14,687,853		33,101		14,637,920	54.5	26,852,323
1915	11,500,480	48.1	12,450,796		15,098		12,406,212	51.9	23,906,692
1916	12,348,036	41.3	17,576,202		4,401		17,517,820	58.7	29,865,856
1917	12,313,603	37.2	20,848,009		9,451		20,810,132	62.8	33,123,735
1918	13,160,731	37.8	21,674,826		3,761		21,611,101	62.2	38,771,832
1919	11,611,168	40.3	17,292,913		344		17,236,269	59.7	28,847,437
1920	14,025,566	42.9	18,752,981		18,868,741		18,868,741	57.1	32,694,307
1921	12,715,734	41.1	18,300,081		18,258,387		18,258,387	58.9	30,974,121
1922	13,044,352	50.2	12,255,555		572,570		12,962,189	49.8	26,006,541
1923	15,070,962	41.8	20,417,239		317,112		20,967,971	58.2	36,038,933
1924	12,529,358	42.8	16,405,344		604,117		16,714,143	57.2	29,243,501
1925	12,125,290	42.6	15,744,957		287,299		16,331,971	57.4	28,457,261
1926	13,086,296	47.7	16,204,405		907,220		16,565,555	52.3	31,651,851
1927	15,944,983	46.7	17,266,434		682,755		18,177,303	53.3	34,122,286
1928	16,487,807	50.0	15,830,688		843,502		16,515,582	50.0	33,003,389
1929	16,387,461	48.0	16,780,452		1,144,861		17,724,132	52.0	34,111,593
1930	14,052,671	43.3	16,971,933		987,442		18,412,039	56.7	32,464,710
1931	11,682,779	47.7	11,793,798		1,727,716		12,828,327	52.3	24,511,106
1932	11,212,701	49.0	9,889,866		1,942,875		11,654,492	51.0	22,867,193
1933	11,456,273	51.5	8,865,935		1,981,116		10,808,962	48.5	22,265,235
1934	13,236,406	51.1	10,580,710		1,822,500		12,651,168	48.9	25,887,574
1935	13,306,303	53.1	9,618,518		1,498,656		11,735,835	46.9	25,042,138
1936	14,508,642	53.3	10,801,643		1,211,052		12,719,515	46.7	27,228,167
1937	15,172,729	51.5	12,574,574				14,268,585	48.5	29,441,314

1938	13,800,094	53.5	10,754,747	1,257,887	12,012,634	46.5	25,812,728	2,281
1939	14,902,915	50.7	12,838,347	1,099,419	14,479,668	49.3	29,382,583	2,597
1940	16,666,234	49.5	15,509,778	1,514,458	17,036,090	50.5	33,702,324	2,960
1941	17,227,151	46.2	19,332,479	693,902	20,026,082	53.8	37,253,233	3,238
1942	17,725,761	42.4	23,735,334	388,010	24,122,916	57.6	41,848,677	3,591
1943	16,321,006	37.1	27,303,776	391,475	27,695,098	62.9	44,016,104	3,727
1944	15,660,808	35.7	27,948,008	218,511	28,166,201	64.3	43,827,009	3,659

*The sum of Canadian coal-mine sales, colliery consumption, coal supplied to employees, and coal used in making coke, etc., less the tonnage of coal exported.

†Includes small tonnages from countries other than Great Britain and the United States. Deductions have been made to take account of foreign coal re-exported from Canada and bituminous coal ex-warehoused for ships' stores.

THE MINES BRANCH

The following table shows the quantity of coke imported into Canada during the years 1943, 1944 and 1945 through ports in the Provinces, compiled from information from the Dominion Bureau of Statistics:

Ports in Province of	1943		1944		1945	
	Made from Petroleum	Made from Coal	Made from Petroleum	Made from Coal	Made from Coal	Made from Petroleum
Nova Scotia		72		148	195	.....
Quebec	253,130	44,991	182,189	49,686	210,778	109,638
Ontario	71,823	857,639	39,888	739,445	1,008,738	82,691
Manitoba .....	.....	35,668	.....	21,833	27,941	.....
Saskatchewan .....	.....	104	.....	32	.....	.....
British Columbia .....	.....	2,449	146	2,316	2,896	1
Alberta .....	.....	143	.....	.....	.....	.....
Total	334,953	941,066	222,223	813,460	1,250,548	192,330

Figures on Imports of Coke into Canada, by Countries, not available for the duration of the war.

Imports of Coal for each year since 1919, through ports in the Provinces of Ontario, Manitoba, Saskatchewan, Alberta, British Columbia and Yukon.

BITUMINOUS COAL

Year	Central Ontario	Port Arthur	Fort Frances	Fort William	Total Ontario	Manitoba	Saskatchewan	Alberta	British Columbia & Yukon	Total Canada
1919	7,641,682	483,991	59,253	1,063,793	9,248,719	62,746	1,406	1,131	6,700	12,010,490
1920	10,261,237	571,879	111,957	1,391,709	12,336,903	43,547	535	607	13,128	15,902,632
1921	8,605,872	659,763	127,956	1,316,155	10,709,746	76,833	2,127	1,820	17,081	13,536,250
1922	7,424,171	445,019	68,082	1,517,250	9,454,522	74,848	1,484	1,147	13,966	11,563,467
1923	11,621,859	619,037	95,439	1,731,667	14,068,002	112,134	1,607	1,110	17,919	17,517,108
1924	8,763,676	403,388	70,259	1,500,525	10,737,848	143,607	2,422	1,209	25,049	12,619,082
1925	9,100,462	286,984	81,173	497,264	9,884,710	147,758	1,732	1,175	40,286	13,015,323
1926	10,531,095	199,908	83,182	965,105	11,696,108	149,374	1,887	1,515	32,992	13,802,242
1927	11,572,678	221,694	90,864	1,273,691	13,158,327	142,860	2,141	1,324	22,648	15,178,640
1928	10,539,408	194,718	103,594	1,481,228	12,318,948	97,002	2,536	1,360	18,632	13,966,183
1929	11,232,027	143,889	100,141	1,591,656	13,067,713	38,801	2,477	1,327	18,526	14,585,275
1930	10,421,748	165,499	70,403	1,297,939	11,955,589	24,898	1,816	1,351	8,886	13,345,308
1931	8,553,736	86,810	65,738	609,279	9,315,563	7,041	1,535	912	2,308	10,347,280
1932	6,867,307	62,019	48,915	691,831	7,670,072	12,298	1,459	830	3,582	8,532,318
1933	7,038,386	74,934	30,108	482,206	7,625,634	13,213	1,327	998	26,077	8,427,656
1934	8,472,143	126,671	37,085	602,510	9,238,409	12,103	1,235	1,302	2,301	10,268,945
1935	8,032,739	6,033	53,145	591,810	8,683,727	9,918	952	1,136	3,722 (a)	9,549,457 (b)
1936	8,448,795	156,229	67,784	688,950	9,361,758	14,101	847	1,205	3,524 (d)	10,700,253 (e)
1937	9,946,567	128,595	69,598	820,160	10,964,920	12,079	743	1,293	2,540 (g)	12,241,270 (h)
1938	7,981,712	113,746	56,806	698,371	8,850,635	9,061	783	1,116	2,701 (k)	9,567,334 (l)
1939	8,035,174	77,532	53,772	528,887	8,695,365	15,035	862	990	1,808 (m)	9,903,613 (o)
1940	11,312,806	28,363	30,138	503,782	11,875,089	7,066	692	795	2,591	13,578,705 (x)
1941	13,910,140	29,608	26,523	765,376	14,731,647	10,021	671	1,062	1,646	17,867,068
1942	14,397,298	292,783	51,942	1,313,815	15,954,838	21,568	773	789	1,573	20,807,005
1943	15,524,762	152,955	262,893	2,425,150	18,365,760	90,293	773	1,002	1,611	24,393,798
1944	15,654,562	271,617	364,674	2,195,070	18,485,923	16,255	556	925	1,236	24,513,527
1945	16,327,574	262,392	292,969	1,325,117	18,207,992	61,325	678	1,239	1,881	24,731,137

NOTE: Figures for Port Arthur, Fort Frances and Fort William omitted for duration of the war.

(x) Consists of 13,382,389 tons from the United States and 196,316 tons from Great Britain.

THE MINES BRANCH

ANTHRACITE COAL

Year	Central Ontario	Port Arthur	Fort Frances	Fort William	Total Ontario	Manitoba	Saskatchewan	Alberta	British Columbia & Yukon	Total Canada
1919	2,977,913	119,234	559	346,442	3,444,148	12,906	.....	66	136	4,972,283
1920	2,943,134	69,206	2,648	226,476	3,221,464	17,509	.....	517	75	4,912,964
1921	2,809,189	62,782	138	198,108	3,070,217	33,473	254	66	251	4,567,370
1922	1,586,924	21,507	12	36,018	1,644,461	14,715	.....	.....	1,261	2,693,957
1923	3,061,779	28,229	429	54,329	3,144,766	55,856	2,291	.....	174	5,167,881
1924	2,599,568	4,775	237	84,513	2,689,093	34,222	1,720	.....	687	4,183,594
1925	2,203,281	37	170	50,731	2,254,819	34,396	.....	30	246	3,798,744
1926	2,458,674	.....	56	60,810	2,519,494	17,990	464	.....	5,202	4,242,942
1927	2,123,515	.....	51	79,283	2,202,849	15,885	484	.....	3,812	3,663,619
1928	2,179,022	.....	42	57,494	2,236,558	10,130	579	.....	2,241	3,737,333
1929	2,246,063	352	303	52,369	2,299,087	9,180	365	.....	597	4,019,917
1930	2,080,457	.....	224	45,201	2,125,922	8,323	367	.....	1,123	4,256,090
1931	1,615,943	.....	3	18,302	1,633,945	3,695	.....	3	702	3,178,141
1932	1,250,735	.....	8	12,677	1,263,435	3,800	.....	75	3,657	3,138,157
1933	1,129,041	.....	.....	8,742	1,137,791	3,689	57	.....	.....	3,035,613
1934	1,374,881	.....	3,030	7,934	1,385,845	6,086	.....	.....	282	3,537,309
1935	1,370,119	.....	19	9,455	1,379,593	5,852	49	.....	1,600	3,451,318(e)
1936	1,436,613	.....	135	16,350	1,453,098	5,884	58	34	1,151	3,530,040(f)
1937	1,608,653	.....	8	21,052	1,629,713	5,639	66	.....	61	3,572,268(j)
1938	1,697,601	.....	69	16,050	1,713,720	4,674	39	.....	280	3,714,001(m)
1939	2,043,142	.....	297	18,459	2,061,898	4,696	.....	33	.....	3,977,805(p)
1940	2,033,585	.....	.....	10,571	2,044,156	4,466	34	.....	236	3,964,862(q)
1941	2,343,406	.....	.....	19,027	2,362,433	10,021	.....	16	30	3,940,859
1942	2,807,479	253	41	8,392	2,816,165	7,093	.....	7	.....	4,802,023
1943	2,502,024	294	298	10,583	2,513,199	16,336	.....	23	110	4,458,519
1944	2,528,190	87	43	7,656	2,535,976	9,723	.....	4	62	4,413,227
1945	2,007,208	.....	42	2,932	2,010,182	6,198	1	1	.....	3,411,424†

*These figures show the total imports and not the tonnages entered for consumption.

†Consists of 3,383,042 tons imported from the United States and 28,382 tons imported from Great Britain.

- (a) Includes imports into the Yukon Territory of 10 tons in July and 10 tons in October.
- (b) Consists of 9,168,428 tons imported from the United States, 380,645 tons imported from Great Britain, 43 tons imported from Alaska, 285 tons imported from Norway, 55 tons imported from Esthonia and 1 ton imported from Poland.
- (c) Consists of 1,670,085 tons imported from the United States, 1,454,521 tons imported from Great Britain, 205,045 tons imported from Germany, 67,220 tons imported from Belgium and 54,447 tons imported from French Indo-China.
- (d) Includes imports into the Yukon Territory of 4 tons in April, 3 tons in May, 6 tons in June, 45 tons in July and 2 tons in October.
- (e) Consists of 10,042,127 tons imported from the United States, 149,905 tons imported from Great Britain, 9,421 tons imported from Germany, 361 tons imported from Norway, 124 tons imported from Denmark, 45 tons imported from Sweden, 35 tons imported from the Netherlands, 134 tons imported from Esthonia, and 286 tons imported from Newfoundland.

- (f) Consists of 1,685,848 tons imported from the United States, 1,331,279 tons imported from Great Britain, 359,994 tons imported from Germany, 33,543 tons imported from Belgium, 122,572 tons imported from French Indo-China, 16,231 tons imported from the Netherlands, and 1,120 tons imported from China.
- (g) Includes imports into the Yukon Territory of 4 tons in March, 6 tons in May, 6 tons in June, 45 tons in July and 2 tons in October.
- (h) Consists of 12,333,378 tons imported from the United States, 56,073 tons from Great Britain, 54,061 tons from Germany, 113 tons from Norway, and 200 tons from Estonia.
- (i) Consists of 2,003,317 tons imported from the United States, 1,134,855 tons imported from Great Britain, 258,257 tons from Germany, 8,131 tons imported from Belgium, 154,495 tons imported from Russia, 78 tons imported from Morocco.
- (k) Includes imports into the Yukon Territory of 8 tons in March, 10 tons in July and 8 tons in October.
- (l) Consists of 9,644,020 tons imported from the United States, 65,957 tons from Great Britain, 34,258 tons from Germany, and 417 tons from Japan.
- (m) Consists of 1,973,610 tons from the United States, 1,199,131 tons from Great Britain, 407,031 tons from Germany, 34,182 tons from Belgium, 14,952 tons from Russia, 19,645 tons from Morocco, 37,594 tons from the Netherlands, and 30,302 tons from French Indo-China.
- (n) Includes imports into the Yukon Territory of 15 tons in July and 8 tons in December.
- (o) Consists of 9,836,110 tons imported from the United States, 67,483 tons from Great Britain, and 20 tons from Norway.
- (p) Consists of 2,605,765 tons from the United States, 1,034,901 tons from Great Britain, 293,602 tons from Germany, and 43,537 tons from French Indo-China.
- (q) Consists of 2,643,588 tons from the United States, and 1,321,274 tons from Great Britain.

Imports of Coal into Ontario, Manitoba, Saskatchewan, Alberta, British Columbia, Yukon and Canada, by months during 1945 (short tons) :

BITUMINOUS COAL

Month	Central Ontario	Port Arthur	Fort Frances	Fort William	Total Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Total	Grand Total, Canada
January	332,959	.....	38,739	.....	371,698	930	.....	.....	75	1,005	558,668
February	347,424	.....	30,537	.....	377,961	1,445	39	49	204	1,737	543,166
March	397,027	.....	17,993	.....	415,020	1,320	.....	87	199	1,606	602,793
April	654,832	.....	6,354	48,711	709,897	404	.....	47	145	596	990,310
May	1,595,824	20,761	10,194	143,632	1,770,411	2,901	171	257	142	3,471	2,275,470
June	1,777,477	30,116	12,426	178,343	1,998,362	3,373	89	117	172	3,751	2,512,113
July	1,813,675	61,761	16,888	175,843	2,068,167	3,505	44	91	121	3,761	2,647,594
August	1,636,805	81,016	24,205	177,826	1,919,852	1,694	83	136	89	2,002	2,496,399
September	1,733,795	20,717	28,928	172,561	1,956,001	506	88	160	42	796	2,519,156
October	1,550,152	11,083	32,604	179,411	1,773,250	1,890	128	184	147	2,216	2,302,156
November	1,205,341	31,198	32,583	180,976	1,450,098	1,456	.....	266	266	1,906	1,954,289
December	1,191,161	5,614	39,405	63,425	1,299,605	973	.....	42	80	1,095	1,774,717
Total	14,236,472	262,266	290,856	1,320,728	16,110,322	20,397	642	1,221	1,682	23,942	21,178,811*

ANTHRACITE COAL

Month	Central Ontario	Port Arthur	Fort Frances	Fort William	Total Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Total	Grand Total, Canada
January	145,294	.....	.....	.....	145,294	1,144	.....	.....	.....	1,144	237,512
February	136,530	.....	.....	.....	136,530	393	.....	.....	.....	393	220,233
March	191,562	.....	.....	.....	191,562	407	.....	.....	.....	407	318,784
April	192,285	.....	.....	.....	192,285	357	.....	.....	.....	357	311,589
May	199,956	.....	.....	.....	199,956	482	.....	1	.....	483	170,934
June	162,751	.....	.....	.....	162,751	447	.....	.....	.....	448	273,214
July	202,440	.....	42	.....	202,482	575	1	.....	.....	575	339,643
August	172,293	.....	.....	.....	172,293	481	.....	.....	.....	481	294,391
September	162,450	.....	2,932	.....	165,382	480	.....	.....	.....	480	291,229
October	203,158	.....	.....	.....	203,158	468	.....	.....	.....	468	341,842
November	169,909	.....	.....	.....	169,909	491	.....	.....	.....	491	299,394
December	168,580	.....	.....	.....	168,580	473	.....	.....	.....	473	312,659
Total	2,007,208	.....	42	2,932	2,010,182	6,198	1	1	.....	6,200	3,411,424†

LIGNITE COAL

[illegible]

BRIQUETTES

January	6,580	88	1,011	7,679	687	.....	.....	.....	687	9,040
February	10,038	188	222	10,448	590	.....	.....	.....	590	12,325
March	11,994	81	.....	12,075	180	.....	.....	.....	180	13,089
April	12,637	82	.....	12,719	569	.....	.....	.....	569	13,892
May	6,476	41	.....	6,517	.....	.....	.....	.....	.....	9,355
June	4,852	.....	.....	4,852	41	.....	.....	.....	41	9,286
July	5,092	165	.....	5,257	.....	.....	.....	.....	.....	8,828
August	6,248	201	.....	5,449	88	.....	.....	.....	88	8,538
September	4,598	93	.....	4,691	41	.....	.....	.....	41	5,310
October	4,453	184	.....	4,637	11,741	.....	.....	.....	11,741	17,951
November	4,995	412	.....	5,587	8,810	.....	.....	.....	8,810	15,741
December	5,715	476	126	6,361	11,983	.....	.....	.....	11,983	19,100
Total	83,678	2,011	1,457	87,272	34,730	.....	.....	.....	34,730	142,435

TOTAL IMPORTATIONS

Bituminous	14,236,472	262,266	290,856	1,320,728	16,110,322	20,397	642	1,221	1,683	23,942	21,176,811
Anthracte	2,007,208	.....	42	2,932	2,010,182	6,198	1	1	.....	6,200	3,411,424
Lignite	216	.....	.....	.....	216	.....	35	17	199	251	467
Briquettes	83,678	126	2,011	1,457	87,272	34,730	.....	.....	.....	34,730	142,435
Total.....	16,327,574	262,392	292,909	1,325,117	18,207,992	61,325	678	1,239	1,881	65,123	24,731,137

THE MINES BRANCH

MINERAL PRODUCTION IN ALBERTA DURING 1943 AND 1944
 Prepared in the Mining, Metallurgical and Chemical Branch, Ottawa, Canada

	1943		1944	
	Quantity	Value	Quantity	Value
METALLICS:				
Gold, fine ounces	21	\$ 808	51	\$ 1,963
Silver, fine ounces	1	...	4	2
NON-METALLICS:				
Coal, short tons	7,767,726	24,030,686	7,428,708	26,814,937
Natural gas, M.cu.ft.	35,569,078	6,241,815	37,161,570	6,339,817
Peat moss, tons	55	1,425		
Petroleum, crude, barrels	9,601,530	15,724,518	8,727,366	14,468,061
Salt, tons	17,499	280,124	25,335	397,646
Sodium, sulphate, tons				
CLAY PRODUCTS AND OTHER				
STRUCTURAL MATERIALS:				
Cement, barrels	606,703	1,176,442	699,989	1,370,502
Clay products, barrels		978,649		1,143,577
Lime:				
Quicklime, tons	17,482	142,125	18,102	151,457
Hydrated, tons	733	7,330	750	7,500
Sand and gravel, tons	626,157	309,380	833,524	328,151
Stone, tons	13,961	47,899	12,726	43,049
Total		\$48,941,210		\$51,066,662

PARTICULARS OF WORK DONE IN SHALE MINES IN THE PROVINCE DURING 1945

Output of Shale (in tons) used making bricks	47,697
Output of Shale (in tons) used making hollow tile	7,318
Number of shifts worked	16,833
Average number of men employed	71
Explosives used (pounds), 40% dynamite	5,500
Explosives used (pounds), monobel	2,450
Number of shots fired using fuse	1,253
Number of shots fired using electric detonators	651
Total number of bricks made	18,463,000
Total number of bricks put to stock	334,000
Total number of bricks lifted from stock	250,175
Bricks sold for use in:	
Alberta	7,690,404
British Columbia	801,704
Saskatchewan	5,412,048
Manitoba	2,877,965
Ontario	597,054
Total	18,379,175
Hollow Tile made (tons)	9,318
Hollow Tile put to stock	
Hollow Tile sold	9,854
Hollow Tile lifted from stock	536

Particulars with reference to the coal mining industry in the Province of Alberta during the year ending December 31, 1945:

SUMMARY OF STATISTICS

Tonnage stripped by farmers under domestic permits	194
Number of short tons of coal produced	7,801,248
Number of short tons of briquettes made	250,274
Number of short tons of coke produced	43,180
Number of short tons of shale produced	57,015
Number of coal mines in operation during the year	199
Number of mines opened during the year	18
Number of mines re-opened during the year	36
Number of mines closed during the year	31
Number of mines abandoned during the year	11
Number of shale pits in operation during the year	4
Number of mines in operation at December 31st, 1945	172
58 mines or 29.15% of the total operating produced 0.30% of the output.	
61 mines or 30.65% of the total operating produced 1.90% of the output.	
12 mines or 6.03% of the total operating produced 1.10% of the output.	
32 mines or 16.08% of the total operating produced 10.0% of the output.	
11 mines or 5.53% of the total operating produced 10.98% of the output.	
6 mines or 3.02% of the total operating produced 9.28% of the output.	
5 mines or 2.51% of the total operating produced 10.65% of the output.	
9 mines or 4.52% of the total operating produced 29.05% of the output.	
5 mines or 2.51% of the total operating produced 26.74% of the output.	
Average number of persons employed below ground	5,752
Average number of persons employed above ground	2,557
Number of separate accidents causing loss of life	17
Number of deaths caused by accidents above ground	2
Number of deaths caused by accidents below ground	21

Number of serious accidents above ground	4
Number of serious accidents below ground	47
Number of slight accidents above ground	35
Number of slight accidents below ground	133
Total purchased electric power (kilowatt hours)	42,790,653
Number of prosecutions instituted	24
Number of Provisional Overmen's Certificates issued during 1945	94
Number of Provisional Examiners' Certificates issued during 1945	25
Number of Emergency Coal Miners' Certificates of Competency issued during 1945	559
Number of Third Class Certificates issued during 1945	40
Number of Second Class Certificates issued during 1945	12
Number of First Class Certificates issued during 1945	6
Number of Mine Surveyors' Certificates issued during 1945	4
Number of Mine Electricians' Certificates issued in 1945	
Number of Third Class Certificates issued to December 31, 1945	1,617
Number of Second Class Certificates issued to December 31, 1945	547
Number of First Class Certificates issued to December 31, 1945	280
Number of Mine Surveyors' Certificates issued to December 31, 1945	203
Number of Mine Electricians' Certificates issued to December 31, 1945	124
Total number of Certificates of Competency as Coal Miners issued to December 31, 1945	17,307

PARTICULARS OF WORK DONE BY FARMERS STRIPPING COAL UNDER DOMESTIC PERMIT

Tonnage	194
Number of days worked during the year	43
Number of men employed during the year	35
Total number of shifts worked	122
Total number of permits issued	28
Permits issued in 1944 and used in 1945	8

The above coal was stripped for domestic use only, and not for sale.

In the following tables the short ton of 2,000 lbs. is used in all cases.

Year	Output in tons for N.W.T. (Alta. & Sask.)	Output in tons for Alberta
1901	346,649	
1902	510,674	
1903	622,939	
1904	782,931	
1905		811,228
1906		1,385,000
1907		1,834,745
1908		1,845,000
1909		2,174,329
1910		3,036,757
1911		1,694,564
1912		3,446,349
1913		4,306,346
1914		3,821,739
1915		3,434,891
1916		4,638,604
1917		4,863,414
1918		6,148,620
1919		5,022,412
1920		6,908,923
1921		5,937,195
1922		5,976,432
1923		6,866,923
1924		5,203,713
1925		5,883,394
1926		6,508,908
1927		6,936,780
1928		7,334,179
1929		7,147,250
1930		5,755,911
1931		4,564,290
1932		4,870,030
1933		4,714,784
1934		4,748,848
1935		5,462,973
1936		5,696,375
1937		5,551,682
1938		5,230,015
1939		5,518,105
1940		6,205,088
1941		6,970,064
1942		7,754,279
1943		7,677,982
1944		7,427,433
1945		7,801,248

THE MINES BRANCH

CLASSIFICATION OF OUTPUT DURING THE YEARS 1901 TO 1945 (INCLUSIVE)

Year	Domestic	Domestic and Bituminous	Sub-bituminous	Bituminous	Anthracite	Coal used in Coke production	Briquettes	Coke
1901*	.....	331,907	.....	.....	14,742	.....	.....	.....
1902*	.....	494,087	.....	.....	16,587	.....	.....	.....
1903*	.....	617,753	.....	.....	5,185	.....	.....	.....
1904*	.....	750,568	.....	.....	23,363	.....	.....	.....
1905*	.....	972,686	.....	.....	43,653	71,292	.....	46,640
1906	602,780	.....	.....	546,623	235,597	103,930	.....	63,844
1907	639,335	.....	.....	939,295	256,115	128,887	49,585	73,782
1908	584,334	.....	.....	1,001,571	249,095	128,397	36,261	75,657
1909	763,673	.....	.....	1,197,399	213,257	148,104	89,785	87,812
1910	878,011	.....	.....	1,896,961	261,785	196,349	108,996	121,578
1911	964,700	.....	.....	649,745	80,119	61,591	48,200	35,984
1912	1,341,389	.....	.....	1,926,371	178,589	170,818	90,000	105,684
1913	1,763,225	.....	.....	2,374,401	168,720	104,012	130,861	65,167
1914	1,697,401	.....	.....	1,953,367	170,971	44,249	109,082	29,058
1915	1,682,922	.....	.....	1,626,237	125,732	38,878	83,180	23,826
1916	2,172,801	.....	.....	2,335,259	140,544	67,105	107,959	41,950
1917	2,537,829	.....	.....	2,206,868	118,717	51,905	93,818	31,630
1918	3,035,061	.....	.....	2,982,334	131,225	53,462	100,470	32,858
1919	3,611,009	.....	.....	2,325,787	85,616	.....	70,033	.....
1920	3,359,309	.....	.....	3,419,021	130,594	.....	101,693	.....
1921	2,943,141	.....	.....	2,897,380	96,674	.....	62,466	.....
1922	3,086,669	.....	.....	3,245,313	40,417	.....	33,663	.....
1923	3,161,741	.....	.....	.....	107	.....	39,638	.....
1924	3,096,660	635,073	.....	1,521,288	.....	.....	791	.....
1925	3,156,359	459,869	.....	2,145,200	.....	.....	11,381	.....
1926	3,160,029	585,765	.....	2,858,508	.....	.....	20,649	.....
1927	3,357,171	581,835	.....	2,984,419	.....	287	24,768	173
1928	3,378,200	490,371	.....	3,215,481	.....	.....	28,167	.....
1929	3,385,749	740,498	.....	3,093,393	.....	.....	24,111	.....
1930	2,874,090	668,108	.....	2,278,490	.....	.....	15,102	.....
1931	2,246,544	603,331	.....	1,846,357	.....	.....	13,582	2,183
1932	2,576,831	471,389	.....	1,733,720	.....	4,591	14,935	49,279
1933	2,434,047	554,141	.....	1,726,596	.....	75,275	13,906	59,703
1934	2,295,566	537,542	.....	1,915,740	.....	91,745	18,812	63,428
1935	2,647,912	566,436	.....	2,248,625	.....	98,233	21,015	65,239
1936	2,841,231	566,486	.....	2,295,638	.....	97,353	27,044	65,967
1937	2,631,150	506,529	.....	2,414,003	.....	103,498	39,239	68,692
1938	2,453,263	488,912	.....	2,287,850	.....	103,191	48,510	68,913
1939	2,449,189	512,105	.....	2,556,801	.....	105,926	66,127	70,753
1940	2,537,205	598,686	.....	3,069,197	.....	.....	.....	.....

1941	2,713,254	585,453	3,671,357	105,390	126,188	70,354
1942	3,213,113	733,547	3,807,619	107,410	197,905	71,572
1943	3,416,037	791,952	3,469,993	101,132	222,106	67,348
1944	3,146,801	729,427	3,551,205	101,633	253,592	67,821
1945	.....	3,200,485	4,600,763	64,280	250,274	43,180

1901 to 1905 includes output from Alberta and Saskatchewan. Previous to 1922 sub-bituminous coal was included in bituminous coal.
It will be noted from the above table that a re-classification of coal was made, and they now come under the heading of "Bituminous" and "Sub-bituminous" coal.
During the year 1909 a strike affecting all the larger mines in the Province, lasted for a period of three months.
During the year 1911 a strike affecting all the larger mines in the Province, lasted for a period of eight months.
During the year 1917 a strike affecting all the larger mines in the Province, lasted for a period of three months.
During the year 1919 a strike affecting all the larger mines in the Province, lasted for a period of three months.
During the year 1922 a strike affecting all the larger mines in the Province, lasted for a period of five months.
During the year 1924 a strike affecting all the larger mines in the Province, lasted for a period of six and one-half months.

How the total output of BITUMINOUS COAL from the Province was disposed of by Areas during 1945:

Areas	Sold for Consumption in:								Used under Colliery Boilers	Used by R.R. Colliery	Making Briquettes	Making Coke	Put to Stock	Put to Waste	Lifted from Stock	Total Output
	Alberta	British Columbia	Saskatchewan	Manitoba	Ontario	Ship's Bunkers	United States	Sold to Railroad Companies								
Group 1:																
Cascade	9,538	14,955	5,179	13,582	7,548		57	157,887	208,746	19,839	508	88,484	5,053	318	4,912	318,036
Norddegg	711							160,415	161,126	6,628		147,514	1,394		805	315,857
Group 2:																
Crowsnest	52,236	192,377	25,684	64,274	22,437	20,394	95,044	1,216,997	1,689,443	18,189		64,280	12,650	82,246	10,268	1,856,540
Mountain Park	19,150	83,035	2,356	54,461	18,379			742,276	919,657	50,646						970,303
Group 3:																
Coalspur	31,186	301,417	18,237	45,300	8,236		2,975	139,228	546,579	48,471	1,384		1,542	21,898	2,588	617,286
Halcourt	625								625	12			12			649
Lethbridge	211,702	41,759	125,517	32,560	7,444		29,118		448,100	3,223			8	207		451,538
Morley	1,430								1,430				571		398	1,603
Pekisko	2,699		40						2,739							2,739
Pincher	149								149				44	38		231
Prairie Creek	2,523	1,410							3,933	1,980			100			6,013
Saunders	8,993	2,808	19,789	18,067	2,477				52,135	7,791						59,926
No Area	40								40	2						42
Total	340,982	637,762	196,802	228,244	66,521	20,394	127,194	2,416,803	4,034,702	156,781	1,882	235,998	64,280	21,374	104,707	4,600,763

THE MINES BRANCH

How total output of SUB-BITUMINOUS COAL from the Province was disposed of by Areas during 1945:

Areas	Sold for Consumption in					Total Sales	Used under Colliery R.R.	Put to Stock	Put to Waste	Lifted from Stock	Lifted from Waste	Total Output
	Alberta	British Columbia	Saskatchewan	Manitoba	Ontario	United States						
Group 4:												
Ardley	14,179	23,369	30,357	32,842	77,028	14,179	.....	35	105	.....	.....	14,139
Brooks	33,992	135	.....	.....	.....	197,588	.....	11,030	11,496	.....	.....	220,114
Big Valley	7,030	7,101	5,945	3,710	1,914	7,165	.....	422	237	.....	.....	7,824
Carbon	48,364	.....	.....	.....	.....	67,034	.....	418	3,108	160	.....	71,733
Champion	6,610	.....	.....	.....	.....	6,610	.....	50	669	.....	.....	7,329
Drumheller	330,389	173,257	870,856	248,571	51,185	1,690,835	.....	2,806	21,379	3,409	.....	1,722,816
Edmonton	394,082	2,934	1,632	2,168	152	400,988	.....	2,109	401	245	.....	408,068
Glendon	18,100	.....	.....	.....	.....	18,100	.....	.....	.....	.....	.....	18,100
Milk River	2,323	.....	.....	.....	.....	2,323	.....	.....	.....	.....	.....	2,323
Pembina	58,110	1,914	539	534	603	61,700	.....	.....	77	60	.....	65,009
Taber	27,366	13,437	24,774	20,043	81,242	185,709	.....	44,540	22,238	8,509	.....	243,978
Wetaskiwin	1,385	.....	.....	.....	.....	1,385	.....	.....	.....	.....	.....	1,385
Whitecourt	102	.....	.....	.....	.....	102	.....	48	.....	.....	.....	150
Group 5:												
Camrose	72,202	980	11,318	.....	.....	84,500	.....	12	399	.....	300	84,836
Castor	51,662	40	29,558	2,797	.....	84,057	.....	.....	1,225	.....	.....	85,605
High Prairie	78	.....	.....	.....	.....	78	.....	.....	.....	.....	.....	78
Pakowki	385	.....	.....	.....	.....	385	.....	.....	.....	.....	.....	385
Redcliff	5,241	123	3,718	1,018	169	10,269	.....	30	.....	103	.....	10,470
Rochester	7,484	.....	.....	.....	.....	7,484	.....	.....	90	.....	.....	7,593
Sheerness	24,677	387	31,119	.....	.....	56,183	.....	.....	4,040	.....	.....	60,223
Totfield	122,937	6,937	35,383	1,955	.....	167,212	.....	.....	90	.....	.....	167,778
Westlock	130	.....	.....	.....	.....	130	.....	20	.....	.....	.....	150
Total	1,226,958	230,634	1,045,199	313,638	212,293	35,504	21,686	61,520	65,565	12,486	300	3,200,485

THE MINES BRANCH

How the total output of BITUMINOUS COAL was disposed of by months during 1945:

Months	Sold for Consumption in							Used under Colliery Boilers	Used by Colliery R.R.	Used making Briquettes	Used making Coke	Put to Stock	Put to Waste	Lifted from Stock	Total Output	
	Alberta	British Columbia	Saskat- chewan	Manitoba	Ontario	Ship's Bunkers	United States									Sold to Railroad Companies
January	39,015	59,538	23,975	24,546	694	.....	15,331	220,426	383,525	14,435	103	8,597	696	11,767	2,987	438,388
February	33,570	52,066	17,389	18,694	5,730	.....	8,123	205,571	345,466	13,717	114	8,001	4,142	9,826	313	402,121
March	29,273	65,907	15,389	14,412	9,600	6,621	15,138	220,027	367,727	15,621	112	21,207	1,336	9,123	791	423,060
April	26,293	55,126	10,946	9,823	8,100	8,729	16,680	219,011	354,708	13,438	92	21,517	7,772	8,633	1,055	405,648
May	17,703	57,226	10,953	24,382	4,886	.....	10,731	192,532	318,423	12,425	90	20,100	4,066	7,905	2,355	361,324
June	21,788	57,886	16,302	13,656	5,389	.....	6,084	251,620	372,725	12,166	120	21,715	4,611	2,499	1,655	421,475
July	26,328	44,455	13,936	13,834	20,263	.....	8,467	203,208	330,491	11,474	74	20,688	4,442	1,776	1,262	375,825
August	24,594	46,999	14,338	16,213	4,394	4,623	14,636	233,491	359,288	12,302	106	22,701	4,157	1,198	2,427	406,246
September	26,045	47,467	13,622	13,647	1,530	.....	9,747	193,614	305,672	11,004	827	19,648	3,778	7,885	3,030	347,529
October	16,128	27,117	8,422	16,149	3,520	.....	4,161	81,862	157,359	11,022	56	6,430	2,382	4,868	391	183,615
November	41,588	63,456	24,066	34,418	7,849	421	10,557	187,568	369,923	15,019	98	20,854	3,973	1,812	1,355	420,622
December	38,657	60,519	23,141	28,470	3,196	.....	7,539	207,873	369,395	14,158	100	17,718	800	10,034	1,350	414,910
Total	340,982	637,762	196,802	228,244	66,521	20,394	127,194	2,416,803	4,034,702	156,781	1,892	235,998	64,280	21,374	18,971	4,600,763
% of Total Sales	8.45	15.8	4.88	5.65	1.64	.50	3.15	60.0								

How the total output of SUB-BITUMINOUS COAL was disposed of by months during 1945:

Months	Sold for Consumption in						Used under Colliery Boilers	Used by R.R. Colliery	Put to Stock	Put to Waste	Lifted from Stock	Lifted from Waste	Total Output
	Alberta	British Columbia	Saskat- chewan	Manitoba	Ontario	United States							
January	142,075	18,885	103,001	32,120	2,831	7,823	2,157	39	3,863	4,112	1,023	170	315,713
February	124,279	24,749	106,444	43,746	8,243	2,263	2,033	31	162	3,356	223	..	315,083
March	90,313	21,168	79,204	23,344	14,773	16,098	1,894	14	7,181	3,673	8,250	..	249,412
April	70,367	17,895	61,158	10,824	13,648	6,084	1,642	5	70	2,202	382	130	183,383
May	54,705	19,090	63,312	15,763	4,804	492	1,664	16	202	895	103	..	160,750
June	56,918	17,399	84,578	24,808	7,546	535	1,626	21	435	1,967	202	..	195,631
July	41,704	10,017	42,152	10,845	31,417	130	1,286	9	11,953	1,454	375	..	150,592
August	68,353	17,263	86,140	27,936	45,800	427	1,697	29	10,295	8,389	369	..	265,931
September	75,907	15,500	74,313	20,747	17,901	213	1,733	29	7,345	6,017	130	..	219,578
October	108,347	15,722	61,803	19,386	23,861	138	2,292	30	9,059	10,162	889	..	249,278
November	217,045	26,188	128,141	43,171	26,339	326	2,212	50	8,419	12,911	180	..	464,622
December	176,945	26,848	154,953	40,948	15,130	975	2,083	30	2,536	10,427	360	..	430,515
Total	1,226,958	230,634	1,045,199	313,638	212,293	35,504	21,686	274	61,520	65,565	12,486	300	3,200,485
% of Total Sales	40.04	7.53	34.11	10.23	6.93	1.16							

THE MINES BRANCH

Amount of COAL sold during the years 1915 to 1945 (inclusive) for consumption in:

Year	Alberta	British Columbia	Saskatchewan	Manitoba	Ontario	North-West Territories	Quebec	United States	To Railroads	Alaska	Total
1915	2,129,130	54,860	695,898	64,816	.....	.....	.....	25,047	.....	.....	2,969,751
1916	2,866,670	86,413	1,007,765	97,265	.....	.....	.....	61,082	.....	.....	4,119,205
1917	2,813,413	76,397	1,139,771	249,872	.....	.....	.....	93,081	.....	.....	4,372,534
1918	3,440,154	101,189	1,372,439	511,168	629	.....	.....	133,276	.....	.....	5,558,855
1919	2,991,110	95,461	1,115,329	314,290	13,911	.....	30	121,212	.....	.....	4,637,710
1920	1,647,202	128,850	1,310,146	600,962	9,898	.....	.....	152,610	2,516,555	.....	6,371,266
1921	1,445,861	116,089	1,294,441	495,388	21,573	.....	102	133,823	2,023,204	.....	5,488,704
1922	1,443,942	107,920	1,371,249	520,518	52,334	.....	.....	105,514	2,076,291	.....	5,647,109
1923	1,382,788	108,326	1,223,454	553,649	52,334	.....	.....	83,557	3,110,121	.....	6,514,219
1924	1,431,327	114,186	1,189,788	510,407	16,525	.....	.....	39,142	1,613,574	.....	4,914,949
1925	1,440,032	117,037	1,297,753	509,655	28,831	.....	.....	40,507	2,139,716	.....	5,573,431
1926	1,325,290	127,858	1,296,181	591,267	74,559	.....	221	48,216	2,706,440	.....	6,170,032
1927	1,508,089	187,028	1,427,904	612,542	22,680	.....	.....	45,160	2,759,765	.....	6,653,168
1928	1,409,475	262,198	1,511,141	605,125	44,265	.....	.....	52,265	3,054,239	.....	6,938,708
1929	1,446,555	236,840	1,455,213	588,647	55,647	.....	33	51,625	2,923,827	.....	6,758,075
1930	1,234,382	227,385	1,221,542	541,537	29,784	.....	.....	44,291	2,120,237	.....	5,419,190
1931	1,020,694	171,610	965,574	422,761	27,036	.....	100	30,434	1,668,451	.....	4,266,660
1932	1,134,311	136,188	1,097,382	497,006	20,583	.....	133	27,366	1,619,921	.....	4,532,892
1933	1,123,357	120,911	1,052,910	449,681	39,437	.....	.....	18,449	1,599,061	.....	4,304,838
1934	1,087,898	127,638	986,639	391,132	55,947	31	.....	13,739	1,687,850	.....	4,350,874
1935	1,246,959	221,728	1,120,816	435,813	64,659	.....	.....	24,712	1,960,555	.....	5,075,272
1936	1,356,690	244,928	1,238,730	450,740	65,886	.....	.....	27,397	1,969,569	.....	5,353,940
1937	1,326,054	269,023	1,085,912	437,950	62,521	82	.....	41,328	2,028,389	.....	5,251,163
1938	1,278,932	238,435	1,011,207	413,663	74,111	83	.....	32,507	1,871,852	.....	4,920,890
1939	1,241,613	239,227	1,044,367	409,046	90,206	.....	.....	33,139	2,109,684	.....	5,167,287
1940	1,311,644	237,642	1,019,035	354,837	133,587	14	.....	35,354	2,720,793	.....	5,812,926
1941	1,335,606	304,958	1,052,913	430,663	234,606	.....	.....	32,742	3,090,390	.....	6,451,748
1942	1,474,795	632,222	1,269,669	580,336	231,258	.....	.....	98,197	2,864,586	.....	7,171,063
1943	1,560,212	864,911	1,455,612	627,368	1,190	.....	.....	414,627	2,098,535	.....	7,071,733
1944	1,424,293	678,960	1,225,075	533,027	10,163	.....	.....	266,664	2,583,101	1,064	6,742,643
1945	1,567,940	868,396	1,242,001	541,882	278,814	.....	.....	162,698	2,416,803	.....	7,088,928

NOTE: Previous to 1920 Railroad Coal was included in Sales in Alberta.

Included in the above total are 49,298 tons for Ship's Bunkers in 1943 and 20,296 tons in 1944.

Included in the above total are 20,394 tons for Ship's Bunkers in 1945.

Coal produced by years from 1941 to 1945 inclusive:

BITUMINOUS COAL FIELD

Area	1941	1942	1943	1944	1945
Group 1:					
Cascade	322,202	337,659	343,476	363,314	318,036
Nordegg	341,549	367,064	320,549	351,869	315,857
Group 2:					
Crownsnest	2,021,155	2,170,222	1,962,557	1,943,068	1,856,540
Mountain Park	985,751	932,403	843,411	892,954	970,303
Group 3:					
Coalspur	509,933	658,061	713,082	651,340	617,286
Halcourt	3,595	2,403	1,873	553	649
Lethbridge	339,579	470,065	579,234	481,896	451,538
Morley					1,603
Pekisko	6,977	10,786	11,802	5,864	2,739
Pincher	823	606	451	660	231
Prairie Creek	16,988		1,828	7,637	6,013
Saunders	50,732	64,094	64,789	63,926	59,926
No Area					42
Total	4,599,284	5,013,363	4,843,052	4,763,081	4,600,763

SUB-BITUMINOUS COAL FIELD

Group 4:					
Ardley	10,916	5,938	10,239	7,109	14,319
Big Valley	4,006	4,768	12,836	5,471	7,824
Brooks	11,446	14,097	30,381	88,364	220,114
Carbon	57,207	63,750	68,391	46,379	71,733
Champion	13,203	12,369	11,776	7,177	7,329
Drumheller	1,458,455	1,785,021	1,838,738	1,678,132	1,722,816
Edmonton	477,637	514,479	457,002	389,330	408,068
Gleichen	25,642	21,979	21,369	16,430	18,100
Milk River	3,848	1,368	2,634	1,629	2,323
Pembina	66,746	58,980	53,611	72,187	65,009
Taber	14,852	13,191	20,596	75,066	243,978
Wetaskiwin	2,546	1,783	3,272	1,085	1,595
Whitcourt	219	288	179	287	150
Group 5:					
Camrose	54,786	47,627	63,834	65,295	84,836
Castor	43,006	42,482	59,764	40,450	85,605
High Prairie			191	588	85
Pakowki	635	469	419	216	385
Redcliff	25,837	24,969	28,165	10,638	10,470
Rochester	1,980	3,289	7,287	4,257	7,595
Sheerness	39,205	50,490	58,933	49,786	60,223
Sexsmith	88				
Tofield	56,485	73,368	85,312	101,895	167,778
Westlock	1,314				150
No Area	700	271		2,581	
Total	2,370,759	2,740,916	2,834,930	2,664,352	3,200,485

THE MINES BRANCH

Total output of BITUMINOUS COAL by areas during each month:

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Group 1:													
Cascade	30,686	29,298	27,738	30,082	28,569	31,307	26,447	24,958	25,457	10,106	30,074	23,314	318,036
Nordegg	27,707	30,078	31,946	28,592	26,731	30,358	25,881	27,877	23,366	9,734	28,396	25,191	315,937
Group 2:													
Crowsnest	180,384	154,342	163,594	164,591	148,037	170,098	157,587	172,191	140,495	61,182	166,781	177,258	1,856,540
Mountain Park	87,608	81,998	91,952	88,330	76,640	90,783	92,988	88,821	69,916	50,644	76,720	73,903	970,303
Group 3:													
Coalspur	49,555	50,512	62,427	51,830	50,965	55,696	36,068	50,232	51,689	33,988	62,375	61,349	617,286
Halcourt	193	193	88	21	27	27	37	50	32	28	80	93	649
Lethbridge	55,319	47,761	38,001	36,525	22,376	36,358	32,618	37,265	31,930	16,070	49,173	47,542	451,538
Morley	315	200	87	118	118	287	259	160	117	40	104	76	1,503
Pekisko	540	500	450	260	104	260	285	160	117	40	104	76	2,739
Pincher	88	59	984	10	10	10	757	10	10	10	28	36	231
Prairie Creek	459	920	984	1,983	1,983	910	757	4,692	4,527	1,813	6,291	5,926	6,013
Saunders	5,727	6,260	5,793	5,417	5,201	5,381	2,898	4,692	4,527	1,813	6,291	5,926	59,926
No Area												42	42
Total	438,338	402,121	423,060	405,648	361,324	421,475	375,825	406,246	347,529	183,615	420,622	414,910	4,600,763

Total output of SUB-BITUMINOUS COAL by areas during each month:

Group 4:													
Ardley	1,882	845	455	129	12	185	297	420	447	1,824	4,702	3,121	14,319
Big Valley	893	565	481	64	441	.....	96	200	18,072	950	2,073	1,629	7,824
Brooks	38,939	6,479	399	399	.....	.....	16,012	26,011	18,072	41,608	44,924	27,670	220,114
Carbon	8,149	5,818	4,782	3,481	3,817	3,707	3,162	4,418	5,490	8,119	13,057	7,733	71,733
Champion	739	566	457	562	249	377	258	616	740	903	1,013	849	7,329
Drumheller	187,724	175,462	159,732	122,546	117,209	155,347	75,015	159,011	132,949	63,147	186,541	178,133	1,722,816
Edmonton	51,552	44,979	31,618	24,262	19,997	19,957	15,366	22,706	27,877	31,099	63,126	55,529	408,068
Gleichen	2,382	1,924	1,289	837	434	701	776	1,488	1,078	1,934	2,704	2,568	18,100
Milk River	96	44	5	32	19	45	40	58	178	1,057	581	144	2,323
Pembina	8,920	6,950	4,955	3,983	4,109	3,914	4,032	3,423	4,312	3,686	9,032	7,685	65,009
Taber	16,706	821	18,765	514	204	421	26,678	31,392	7,620	40,558	55,143	45,156	243,978
Wetaskiwin	250	170	120	50	30	25	35	25	50	150	380	310	1,595
Whitecourt	26	48	17	.....	.....	.....	.....	.....	16	.....	.....	43	130
Group 5:													
Camrose	8,462	6,290	3,751	25,85	1,867	1,485	2,788	3,345	6,020	18,328	18,034	11,881	84,836
Castor	5,963	5,231	2,324	1,100	767	1,389	909	2,374	2,823	6,088	11,844	44,793	85,695
High Prairie	62	23	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	85
Pakowki	22	17	10	7	.....	.....	.....	10	48	142	108	21	385
Redcliff	1,416	647	263	184	468	491	753	586	1,091	1,536	1,548	1,487	10,470
Rochester	1,300	634	213	63	7	19	25	33	127	721	2,690	1,763	7,595
Sheerness	148	12,147	4,857	3,627	3,127	1,587	36	4,817	3,838	8,388	9,361	8,290	60,223
Tofield	19,021	12,963	8,335	8,932	7,933	5,981	4,314	4,996	6,442	19,040	37,771	31,560	167,778
Westlock	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	150	150
Total	315,713	315,083	249,412	183,383	160,750	195,631	150,592	265,931	219,575	249,278	464,622	430,515	3,200,485

Total output of COAL, COKE and BRIQUETTES during the year:

	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Coal	754,101	717,204	672,472	589,031	522,074	617,106	526,417	672,177	567,104	432,893	885,244	845,425	7,801,248
Coke	5,992	5,294	5,767	5,128	2,655	3,089	2,952	2,843	2,484	1,658	2,634	2,704	43,180
Briquettes	23,608	22,397	22,487	22,707	21,358	23,212	21,977	24,028	20,792	6,860	22,061	18,767	250,274

Total Sales of BITUMINOUS COAL for consumption by Railroad Companies:

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Group 1:													
Cascade	15,422	14,622	15,039	14,620	15,383	15,812	13,365	12,972	13,200	3,874	13,318	10,260	157,887
Nordegg	13,553	16,196	17,821	14,985	13,691	16,655	11,977	11,582	10,743	4,882	14,862	13,468	160,415
Group 2:													
Crowsnest	111,789	98,687	96,879	103,142	101,785	128,269	116,346	119,416	101,134	31,729	95,867	111,954	1,216,997
Mountain Park	70,230	66,453	76,831	74,845	47,730	75,832	55,807	73,963	57,912	33,897	51,755	57,021	742,276
Group 3:													
Coalspur	9,432	9,613	13,457	11,419	13,943	15,052	5,713	15,558	10,625	7,480	11,766	15,170	139,228
Total	220,426	205,571	220,027	219,011	192,532	251,620	203,208	233,491	193,614	81,862	187,568	207,873	2,416,803

Total amount of Bituminous Coal disposed of by areas during each month for consumption in Alberta:

LUMP COAL

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Group 1:													
Cascade	144	51	22	32	52	60	42	12	57	140	255	144	1,011
Group 2:													
Crowsnest	317	328	207	126	134	111	47	129	48	100	140	143	1,830
Mountain Park	334	365	296	276	155	165	62	104	175	236	387	359	2,914
Group 3:													
Coalspur	1,512	2,084	1,448	1,348	1,364	1,531	1,548	1,466	1,573	730	1,754	1,769	18,127
Halcourt	188	70	9	9	17	17	28	37	27	22	57	62	517
Lethbridge	10,336	7,667	5,368	4,817	3,149	4,726	6,250	7,717	8,136	4,395	13,231	11,810	87,602
Pincher Creek	72	49	241	602	10	10	287	.....	.....	.....	.....	.....	131
Prairie Creek	147	324	204	204	257	443	44	256	246	162	555	714	1,883
Saunders	770	410	490	204	257	443	44	256	246	162	555	714	4,551
Total	13,632	11,466	8,142	6,812	5,713	7,345	8,308	9,721	10,262	5,785	16,379	15,001	118,566

MINE-RUN COAL

Group 1:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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NUT COAL

Group 1: Cascade Norgeg Group 2: Crownst Mountain Park Group 3: Coalspur Hornbridge Lethley Morley Pekisko Pincher Prairie Creek Saunders	331	354	367	144	172	133	180	81	201	251	403	402	3,019	
	415	266	281	398	447	181	249	362	297	245	554	531	4,226	
	615	685	688	539	428	220	608	610	621	365	756	600	6,635	
	1,173	832	548	1,048	1,066	734	523	687	1,728	357	791	786	10,273	
	4,729	3,335	3,274	4,025	2,608	3,385	3,074	3,344	3,747	1,695	4,133	3,656	41,015	
	8	5								5			18	
	123	131			278	94							634	
	562	451	277	157	136	192		240	175	136	484	464	3,564	
	290													
Total	7,569	6,164	5,752	6,441	5,156	4,893	4,835	5,337	6,674	3,060	7,141	6,467	69,489	

THE MINES BRANCH

SLACK COAL

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Group 1:													
Cascade				138	817	733	809	561	233	340	777	1,100	5,508
Nordeg													
Group 2:													
Crowsnest	2,843	3,182	3,628	3,000		283	40	41	747	261	521	1,128	15,674
Mountain Park													
Group 3:													
Coalspur	552	334	131	169					10		12	542	1,750
Halcourt													
Lethbridge	8,958	7,738	7,281	6,659	3,578	6,073	5,781	6,807	4,875	3,078	9,100	8,261	78,189
Morley	315				206	70	259	310	90				1,250
Pekisko													
Pincher													
Prairie Creek													
Saunders	39	66	141	43	70	20				57	38	74	548
Total	12,707	11,323	11,181	10,009	4,671	7,179	6,889	7,719	5,955	3,736	10,448	11,105	102,922

Total amount of Sub-Bituminous Coal disposed of by areas during each month for consumption in Alberta:

LUMP COAL

Group 4:	Ardley	222	349	202	49	227	72	130	242	543	1,147	942	4,499	222	
	Big Valley	596	4,904	749	333		169	606		6,379	9,875	2,418	25,433		
	Brooks		2,188	1,641	755	609	714	1,259	2,047	2,436	3,968	3,968	24,004		
	Carbon	3,098	410	355	412	188	440	288	462	744	744	630	5,405		
	Champion	553	16,965	14,600	13,162	9,283	11,044	13,660	12,740	6,782	23,181	20,916	168,128		
	Drumheller	19,854	16,335	9,861	6,468	4,805	5,970	7,616	9,576	8,869	18,907	18,355	130,669		
	Edmonton	19,227	16,335	9,861	6,468	4,805	5,970	7,616	9,576	8,869	18,907	18,355	130,669		
	Gleichen	622	513	292	120	104	103	97	52	148	383	513	2,994		
	Pembina	1,518	1,378	315	280	804	867	652	729	750	2,224	2,260	12,814		
	Taber	1,006	609	648	412	158	315	392	476	360	2,210	3,513	12,250		
	Wetaskiwin														
	Whitecourt	22	27	17								27		93	
	Group 5:	Camrose	4,123	2,508	1,229	865	664	1,083	1,347	3,002	4,624	6,894	5,203	31,903	
		Castor	1,911	2,689	893	373	265	180	105	256	1,437	3,534	6,827	18,679	
		High Prairie	33	15										48	
		Redcliff	386	233	137	21	52	564	586	452	629	808	705	4,700	
		Rochester												884	
Sheerness		42	1,450	289	168	110	115	11	387	824	2,459	3,783	11,541		
Toftield		4,349	1,794	483	334	154	281	307	1,037	3,942	10,764	7,059	30,639		
Total		57,462	52,867	31,711	23,752	17,423	20,071	14,468	27,767	31,880	91,982	74,761	48,651		

THE MINES BRANCH

MINE-RUN COAL

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Group 4:													
Ardley	1,500	835	450	129	12	185	297	420	447	1,824	4,242	3,121	13,922
Big Valley	70	50	15	15	...	...	...	...	24	50	35	30	289
Brooks .....	...	497	132	54	...	...	...	74	50	380	866	1,224	3,333
Carbon	1,759	957	775	249	21	133	35	306	608	3,254	4,244	1,977	13,418
Drumheller	750	560	414	785	240	143	85	292	350	500	1,247	838	6,504
Edmonton	7,498	6,770	7,074	7,336	7,096	6,772	4,562	6,015	4,056	9,787	19,113	12,589	98,668
Gleichen	1,347	1,012	782	596	323	534	710	1,319	913	1,651	1,878	1,673	12,744
Milk River	96	44	9	32	19	45	40	58	178	1,057	581	144	2,323
Pembina	5,216	3,444	3,877	3,019	2,833	2,554	2,717	1,918	2,146	1,827	4,632	3,804	37,987
Taber .....	...	...	...	...	...	...	7	...	...	1	1,150	3,505	4,663
Wetaskiwin	200	110	80	30	25	20	30	20	40	130	314	254	1,253
Whitecourt .....	...	2	...	...	...	...	...	...	...	...	...	...	2
Group 5:													
Camrose	654	238	326	53	353	252	127	62	166	758	1,834	1,463	6,286
Castor	3,646	2,351	1,112	654	482	1,179	561	2,184	2,461	4,466	7,840	4,885	31,821
High Prairie	9	8	...	...	...	...	...	...	...	...	...	...	17
Pakowki	22	17	10	7	...	...	...	10	48	142	108	21	385
Redcliff	81	47	12	9	...	8	9	...	26	3	...	...	195
Rochester	1,185	572	186	55	7	19	25	33	126	428	1,162	718	4,516
Sheerness	89	2,490	1,599	385	445	211	21	1,056	583	1,801	1,504	1,924	12,108
Tofield	10,539	7,807	6,484	6,575	5,508	4,590	2,807	3,497	3,687	6,874	13,357	12,459	84,184
Westlock .....	...	...	...	...	...	...	...	...	...	...	...	63	63
Total	34,661	27,811	23,337	20,003	17,370	16,645	12,082	17,271	15,909	34,933	64,567	49,792	334,381

NUT COAL

Group 4:	128	98	93	162	382	19	50	125	295	639	471	2,080
Ardley	1,320	419	959	476	343	274	2	637	516	256	254	2,519
Big Valley	917	98	88	34	70	35	439	695	1,323	1,033	7,776	7,776
Brooks	116	88	67	34	70	35	85	117	147	149	124	1,130
Carbon	9,594	8,073	7,786	6,663	4,870	3,528	6,895	6,332	4,351	10,174	9,005	83,817
Champion	13,019	12,142	9,353	6,772	5,074	3,623	4,905	8,056	6,878	14,120	13,773	102,350
Drumheller	351	343	180	83	61	60	70	35	92	368	349	2,008
Edmonton	1,009	284	311	324	169	203	164	458	470	1,177	1,128	6,048
Gleichen	344	107	196	49	24	50	91	130	2,767	3,564	1,229	8,607
Pembina	50	60	40	20	5	5	5	10	20	66	56	342
Wetaskiwin	2,932	2,650	1,755	1,294	729	960	1,121	1,833	4,219	6,191	3,144	27,442
Group 5:	68	39	64	35	3	3	5	11	26	90	305	646
Camrose	13	2	...	...	...	...	...	...	...	...	...	13
Castor	4	...	...	...	...	...	...	...	...	...	...	6
High Prairie	3	...	...	...	...	...	...	...	...	...	...	4
Redcliff	...	...	...	...	...	...	...	...	...	...	...	...
Rochester	...	185	109	12	68	28	165	...	216	182	63	1,028
Sheerness	...	287	236	201	528	256	162	197	1,050	2,151	1,202	7,060
Tofield	627	...	...	...	...	...	...	...	...	...	64	64
Westlock	...	...	...	...	...	...	...	...	...	...	...	...
Total	29,175	26,107	21,149	16,017	11,952	12,967	14,159	18,686	21,047	40,451	32,200	252,940

SLACK COAL

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Group 4:													
Ardley	35		14		17				4	14	45	44	35
Big Valley	24		3	12						15	784	1,088	162
Brooks	445	575	387	299	121	205	758	50	7	242	421	250	2,707
Carbon	28	24	7		7		66		105	6		3	3,166
Champion	8,494	6,593	8,516	6,741	5,397	5,012	3,338	6,127	4,033	3,402	7,440	7,067	72,160
Drumheller	10,321	8,178	4,571	3,056	2,196	1,887	1,572	2,352	4,425	4,774	9,515	9,548	62,395
Edmonton	62	56	35	38	3	4	3	2	3	43	75	33	354
Gleichen	11	1,189			5				51	2			1,261
Pembina	56	3	2							917	439	432	1,846
Taber	4												7
Whitecourt													
Group 5:													
Camrose	771	763	372	440	216	125	385	618	810	564	844	663	6,571
Castor	86		178			2	1						516
Redcliff	326	6	4	1			1			1			340
Rochester	112	62	27	8					1	23	99	139	471
Tofield	2	5									374	673	1,054
Westlock												3	3
Total	20,777	17,494	14,116	10,595	7,960	7,235	6,124	9,156	9,432	9,997	20,045	20,192	153,123

Total amount of Bituminous Coal disposed of by areas during each month for consumption in British Columbia:

LUMP COAL

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Group 1:													
Cascade									49				49
Nordeg													
Group 2:													
Crowsnest	374	467	549	506	531	278	317	457	775	652	1,851	3,387	10,144
Mountain Park	492	411	205	85	213	122	129	47	42	252	459	167	2,624
Group 3:													
Coalspur	13,009	13,284	18,170	13,150	12,582	13,891	9,992	11,293	10,244	6,438	12,479	11,849	146,381
Hatcourt													
Leithbridge	2,836	2,401	3,664	2,039	1,603	2,874	1,972	2,328	1,709	708	2,333	2,429	26,896
Prairie Creek	44	191	220	551	551	234	170						1,410
Saunders	44	42	42	45	434	85	642	133	83		84	85	1,719
Total	16,799	16,796	22,850	15,825	15,914	17,484	13,222	14,258	12,902	8,050	17,206	17,917	189,223

MINE-RUN COAL

Group 1:	160	121	.....	.....	74	75	146	146	119	422	302	1,565
Cascade	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Group 2:	95	57	.....	512	206	1,381	1,188	2,584	1,541	790	1,356	12,101
Crowsnest	.....	94	1,048	2,535	486	664	941	1,224	470	634	92	8,637
Mountain Park	72	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total	327	272	1,143	3,047	692	2,119	2,204	3,854	2,157	1,543	1,870	22,303

NUT COAL

Group 1:	937	1,446	1,135	1,690	1,233	1,403	1,058	1,051	654	479	1,347	834	13,267
Cascade	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Group 2:	4,747	2,859	3,871	3,216	2,501	2,269	1,711	2,212	2,050	674	2,060	2,722	30,982
Crowsnest	.....	1,501	1,728	1,978	1,881	1,719	2,006	1,390	1,509	1,273	2,142	6,789	25,778
Mountain Park	1,862	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Group 3:	10,689	11,099	14,015	10,436	9,318	9,822	6,263	9,037	14,867	9,004	16,576	14,269	137,415
Coalspur	.....	1,213	937	953	254	1,140	836	852	514	173	729	942	9,596
Lethbridge	1,053	.....	.....	.....	237	35	144	.....	.....	.....	.....	33	449
Saunders	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total	19,288	18,118	21,686	18,273	15,514	16,388	14,018	14,562	19,594	11,603	22,854	25,589	217,487

SLACK COAL

Group 1:	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	74	74
Cascade	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Group 2:	16,931	11,006	15,000	14,365	18,003	13,062	8,620	7,873	8,051	2,956	11,786	11,497	139,150
Crowsnest	4,742	4,531	3,209	1,375	4,074	5,652	4,536	5,034	3,584	2,176	6,897	186	45,996
Mountain Park	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Group 3:	694	812	1,637	1,863	2,278	2,426	1,430	937	581	568	2,477	1,918	17,621
Coalspur	.....	531	382	378	300	755	235	381	598	221	366	363	5,267
Lethbridge	757	.....	.....	.....	451	190	.....	.....	.....	.....	.....	.....	641
Saunders	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total	23,124	16,880	20,228	17,981	25,106	21,895	15,011	14,225	12,814	5,921	21,526	14,038	208,749

THE MINES BRANCH

Total amount of Sub-Bituminous Coal disposed of by areas during each month for consumption in British Columbia:

LUMP COAL

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Group 4:													
Big Valley		22	47					551		3,628	3,460	4,099	69
Brooks		3,216	605					421		196	144	234	15,559
Carbon		512	324	135	111	314	139	355		3,428	10,196	9,733	3,388
Drumheller		8,436	9,202	8,947	9,612	8,374	5,332	7,725	7,067	3,428	10,196	9,733	95,905
Edmonton		210	41	42	166	40	165	82	209	43	205	85	1,371
Pembina		547	132	44	44					43	269		1,341
Taber		649						42	124	1,818	1,845	2,686	6,964
Group 5:													
Cannise							42		48	208			298
Redcliff					80						43		123
Torfield										82	74	80	236
Total	9,762	12,489	10,394	9,168	10,013	8,728	5,678	8,821	7,803	9,245	16,236	16,917	125,254

MINE-RUN COAL

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Group 4:													
Drumheller	84	84				390	260	218	401	86	297	345	2,462
Taber					297							582	582
Group 5:													
Castor	40	387											40
Sheerness		1,536	806	1,545	665	500	249			43			387
Torfield	1,234												6,578
Total	1,358	2,007	806	1,545	962	890	509	218	401	129	297	927	10,049

NUT COAL

Group 4:	Big Valley	21	45																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														</
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SLACK COAL

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Total amount of Bituminous Coal disposed of by areas during each month for* consumption in Saskatchewan:

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MINE-RUN COAL

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Group 1: Cascade											46	45	91
Group 2: Crownsnest	1,371	661	669	332	191	464	380	981	1,266	916	2,280	1,684	11,195
Mountain Park	184		94	49		50	139			44	96	45	701
Group 3: Coalspur													89
Pekisko	46		43										40
	40												
Total	1,641	661	806	381	191	514	519	981	1,266	960	2,422	1,774	12,116

NUT COAL

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Group 1: Cascade	687	596	598	516	343	595	378	189	350	41	336	222	4,851
Group 2: Crownsnest	705	599	226	47	378	325	560	286	188	232	420	552	4,518
Mountain Park	170	217	83		214		42				84	82	892
Group 3: Coalspur	926	1,499	1,270	1,341	994	1,360	1,269	337	169	1,224	2,190	1,785	14,264
Lethbridge	4,050	4,093	2,535	1,840	1,524	2,974	2,472	2,707	1,772	1,121	3,957	4,121	33,166
Saunders	696	383	421	621	440	481	145	430	423	108	714	384	3,756
Total	7,234	7,387	5,133	4,365	3,893	5,635	4,866	3,949	2,902	2,726	7,701	7,656	65,447

SLACK COAL

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Total amount of Sub-Bituminous Coal disposed of by areas during each month for consumption in Saskatchewan:

LUMP COAL

[illegible]

MINE-RUN COAL

[illegible]

NUT COAL

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Group 4:													
Brooks	140	1,708	83	232				80	312	866	256	396	3,701
Carbon	27,004	22,957	21,274	15,938	14,856	21,361	9,905	21,151	18,523	7,951	24,708	25,680	588
Drumheller	82	41	42	41				124	41		80	42	231,308
Edmonton	41		40					40	41		80	41	411
Penbina	121							42	42	2,146	3,520	2,686	407
Taber													8,515
Group 5:													
Camrose	47	47					84	54	86	2,122	797	89	3,326
Castor		2,593	883	664	832	510		1,510	1,023	1,519	1,077	3,660	3,660
Sheerness		45			87		102	197	210	2,179	3,598	1,266	11,877
Tofield												3,130	9,548
Total	27,435	27,440	22,340	16,875	15,775	21,871	10,131	23,263	20,278	16,783	34,160	36,990	273,341

SLACK COAL

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Group 4:													
Brooks	20,278	19,672	15,261	12,768	11,921	13,001	7,737	11,055	14,377	5,042	19,058	20,331	4,085
Carbon	341	293			632	481		518	501	2,430	592	770	3,837
Drumheller										367			3,837
Taber													170,501
Group 5:													857
Camrose										3,302	414	781	4,497
Castor												1,672	1,672
Redcliff		99	55	60	118	62	119		109	197	190	136	1,145
Sheerness		678	327	331	239	196		536	342	414	309	313	3,685
Tofield					100				285	285	461	478	1,324
Total	20,619	20,742	15,643	13,191	13,010	13,740	7,856	12,109	15,329	12,461	21,854	25,121	191,643

Total amount of Bituminous Coal disposed of by areas during each month for consumption in Manitoba:

LUMP COAL

Group 1:	95	93	48	49	48	47	45	87	512
Cascade	.....	.....	.....	.....	.....	.....	.....	.....	.....
Nordeg	.....	.....	.....	.....	.....	.....	.....	.....	.....
Group 2:	968	1,683	775	513	260	979	2,672	2,009	12,735
Crownest	.....	40	41	169	81	41	86	130	1,107
Mountain Park	.....	.....	.....	.....	.....	.....	.....	.....	.....
Group 3:	3,423	3,223	2,652	1,720	1,603	1,874	2,975	2,418	27,783
Coalspur	.....	3,035	2,921	1,488	1,453	1,349	2,191	2,262	24,888
Lethbridge	.....	.....	.....	.....	.....	.....	.....	.....	.....
Prairie Creek	.....	.....	.....	.....	.....	.....	.....	.....	.....
Saunders	1,073	1,823	1,168	1,379	650	924	1,185	835	11,542
Total	9,160	9,897	7,605	5,269	4,275	5,214	9,154	7,741	78,567

MINE-RUN COAL

Group 1:	570	663	175	137	42	220	130	549	2,704
Cascade	.....	.....	.....	.....	.....	.....	.....	.....	.....
Nordeg	.....	.....	.....	.....	.....	.....	.....	.....	.....
Group 2:	684	578	96	138	45	572	680	728	5,652
Crownest	.....	46	.....	.....	15,955	289	334	527	18,314
Mountain Park	.....	.....	.....	.....	.....	.....	.....	.....	.....
Group 3:	.....	.....	.....	.....	.....	.....	.....	.....	.....
Coalspur	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lethbridge	.....	.....	.....	.....	.....	.....	.....	.....	.....
Prairie Creek	.....	.....	.....	.....	.....	.....	.....	.....	.....
Saunders	.....	.....	.....	.....	41	42	.....	.....	83
Total	1,254	1,287	271	275	16,083	1,123	1,144	1,804	26,753

THE MINES BRANCH

NUT COAL

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Group 1:													
Cascade	1,501	1,147	804	686	673	971	1,003	974	1,013	308	830	.....	9,910
Nordegg .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Group 2:													
Crowsnest	714	377	193	283	234	95	561	190	249	90	1,441	3,263	7,690
Mountain Park	1,699	346	1,239	1,076	468	633	1,380	1,093	805	1,032	1,534	1,234	12,539
Group 3:													
Coalspur	725	815	755	468	130	555	132	1,460	1,248	1,004	1,813	2,400	11,505
Lethbridge	959	744	554	87	607	860	987	1,068	473	85	735	513	7,672
Prairie Creek .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Saunders	378	456	179	308	397	414	133	349	269	60	343	234	3,520
Total	5,976	3,885	3,724	2,908	2,509	3,528	4,196	5,134	4,057	2,579	6,696	7,644	52,836

SLACK COAL

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Group 1:													
Cascade	126	124	83	123	.....	.....	.....	.....	.....	.....	.....	.....	456
Nordegg .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Group 2:													
Crowsnest	5,885	2,432	1,176	341	846	554	2,376	2,230	1,645	3,335	8,386	8,991	38,197
Mountain Park	1,420	237	701	187	234	2,038	1,450	1,109	581	5,453	7,566	1,435	22,501
Group 3:													
Coalspur	462	513	469	387	329	514	333	200	614	321	1,159	711	6,012
Prairie Creek .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Saunders	263	319	383	333	106	306	.....	278	413	64	313	144	2,922
Total	8,156	3,625	2,812	1,371	1,515	3,412	4,159	3,907	3,253	9,173	17,424	11,281	70,088

Total amount of Sub-Bituminous Coal disposed of by areas during each month for consumption in Manitoba :

LUMP COAL												
Group 4:												
Brooks	10,255	518	813	789	600		4,219	5,190	4,758	24,940		
Carbon	47							46	48	2,343		
Drumheller	19,895	17,513	11,731	15,129	7,325	18,229	14,361	19,072	17,389	178,157		
Edmonton	291	86		126	188	123	209	258	294	2,084		
Pembina							154			154		
Taber		42						4,097	3,667	9,981		
Group 5:												
Canrose										2,286		
Castor	134		45	41	39		169	126	198	1,018		
Redcliff	138						41	87	539	1,288		
Tofield												
Total	30,760	18,159	8,585	12,544	16,085	18,352	14,934	12,992	29,043	222,251		
MINE-RUN COAL												
Group 4:												
Drumheller	40	41				44				167		
Group 5:												
Castor										40	40	
Total	40	41				44				207		
NUT COAL												
Group 4:												
Brooks	4,781	1,043	611	161	319		298	290	363	259	7,034	
Carbon							90	139		47	1,367	
Drumheller	6,513	3,710	2,354	4,174	2,293	5,495	4,057	2,338	7,811	6,583	53,925	
Edmonton										84	84	
Pembina							380			380	380	
Taber								1,799	4,100	2,015	8,373	
Group 5:												
Castor										471	471	
Tofield	89								44	534	667	
Total	11,294	4,753	1,707	2,965	4,335	5,495	4,825	4,566	12,318	9,993	72,301	

SLACK COAL

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Group 4:													
Brooks	867	1,652	391	532	254	4,388	81	4,045	988	1,788	400	428	868
Drumheller	307										1,208	128	16,322
Taber											202	1,180	1,689
Total	1,174	1,652	391	532	254	4,388	81	4,045	988	1,828	1,810	1,736	18,879

Total amount of Bituminous Coal disposed of by areas during each month for consumption in Ontario:

LUMP COAL

Group 1:													
Cascade													
Nordegg													
Group 2:													
Crowsnest	81	236	94		37	99	229	179		47	94	47	1,143
Mountain Park							317						317
Group 3:													
Coalspur	203		81	1,888	950	483	90	126	126	123	252	130	4,452
Lethbridge	126	130	132	2,471	484	430	612	419	87	82	114	52	5,139
Prairie Creek													
Saunders		42	149	697	222	611	37	43			81		1,882
Total	410	408	456	5,056	1,693	1,623	1,285	767	213	252	541	229	12,933

MINE-RUN COAL

Group 2:													
Crowsnest	47					78	49						174
Mountain Park							16,331						16,331
Total	47					78	16,380						16,505

NUT COAL

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Group 4:													
Brooks	.....	3,815	1,624	.....	.....	.....	4,429	3,066	10,209	1,213	3,535	801	28,692
Carbon	.....	.....	96	406	.....	.....	.....	337	122	21	.....	.....	982
Drumheller	2,141	3,571	4,235	3,976	2,358	4,290	966	2,811	2,063	384	706	587	28,088
Edmonton	.....	.....	.....	.....	.....	.....	.....	132	.....	.....	.....	.....	152
Pembina	.....	.....	.....	.....	.....	.....	.....	296	.....	48	155	53	552
Taber	439	.....	7,802	.....	.....	.....	10,677	13,592	2,377	7,748	7,548	5,169	55,352
Total	2,580	7,386	13,757	4,382	2,358	4,290	16,072	20,254	14,771	9,414	11,944	6,610	113,818

SLACK COAL

Group 4:													
Brooks	.....	126	136	194	294	370	727	729	800	1,041	947	288	2,056
Drumheller	40	.....	.....	.....	.....	.....	350	.....	.....	403	.....	960	5,349
Total	40	126	136	194	294	370	1,077	729	800	1,444	947	1,248	7,405

Total amount of Bituminous Coal disposed of by areas during each month for consumption in Ship's Bunkers:

MINE-RUN COAL

Group 2:													
Crowsnest	.....	.....	6,621	8,729	.....	.....	.....	4,623	.....	.....	421	.....	20,394

Total amount of Bituminous Coal disposed of by areas during each month for consumption in United States:

LUMP COAL

Group 2:													
Crowsnest	2,768	46	406	199	1,774	1,347	1,229	1,566	883	248	997	562	12,025
Group 3:													
Coalspur	602	716	487	95	47	82	82	97	.....	.....	51	.....	2,177
Lethbridge	2,562	2,149	1,427	3,893	1,334	882	914	1,022	823	166	936	1,131	17,239
Total	5,932	2,911	2,320	4,092	3,203	2,276	2,225	2,685	1,706	414	1,984	1,693	31,441

MINE-RUN COAL

Group 2: Crownsnest	60	57	4,557	8,346	4,221	48	600	1,762	53	63	703	• 60	20,530
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NUT COAL

Group 1: Cascade	57	57
Group 2: Crownsnest	5,195	1,879	5,464	2,800	1,511	1,696	1,887	3,095	1,977	562	1,094	799	27,959
Group 3: Coalspur	401	107	.....	.....	.....	.....	.....	.....	152	44	49	.....	753
Lethbridge	1,633	2,043	1,537	1,164	545	780	517	878	586	263	858	1,075	11,879
Total	7,286	4,029	7,001	3,964	2,056	2,476	2,404	3,973	2,715	869	2,001	1,874	40,648

SLACK COAL

Group 2: Crownsnest	2,053	1,126	1,260	278	1,251	1,284	3,238	6,216	5,273	2,770	5,869	3,912	34,530
Mountain Park .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	45	.....	.....	45
Total	2,053	1,126	1,260	278	1,251	1,284	3,238	6,216	5,273	2,815	5,869	3,912	34,575

Total amount of Sub-Bituminous Coal disposed of by areas during each month for consumption in the United States:

LUMP COAL

Group 4: Drumheller	162	2,088	5,130	5,483	183	166	82	86	125	41	125	167	13,838
Taber	4,426	.....	6,029	.....	.....	.....	.....	.....	.....	.....	108	608	11,171
Total	4,588	2,088	11,159	5,483	183	166	82	86	125	41	233	775	25,009

MINE-RUN COAL

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Group 4: Drumbeller			474	375									849

NUT COAL

Group 4: Drumbeller Taber	44 3,191	175	304 4,161	226	309	369	48	269	88	97	41 52	200	1,970 7,604
Total	3,235	175	4,465	226	309	369	48	269	88	97	93	200	9,574

SLACK COAL

Group 4: Taber								72					72
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Amount of Bituminous Coal used under Colliery Boilers by areas during each month:

Group 1: Cascade Nordegg Group 2: Crowsnest Mountain Park Group 3: Coalspur Halcourt Lethbridge Prairie Creek Saunders No Area	1,740 624 2,112 4,979 3,418 511 260 791	1,669 567 1,875 4,514 3,473 515 280 824	1,797 614 1,970 4,951 4,818 424 290 751	1,512 614 1,678 4,686 4,006 266 290 676	1,522 567 1,093 4,134 3,721 154 550 684	1,802 615 1,004 3,443 4,219 142 300 641	1,553 615 964 3,645 3,771 128 300 498	1,657 615 983 3,790 4,530 120 607	1,523 579 951 3,665 3,620 136 530	1,488 465 1,172 4,219 3,193 137 348	1,852 614 1,966 4,176 5,330 321 757	1,724 139 2,421 4,444 4,372 3 369 684	19,839 6,628 18,189 50,646 48,471 12 3,223 1,980 7,791 2
Total	14,435	13,717	15,621	13,438	12,425	12,166	11,474	12,302	11,004	11,022	15,019	14,158	156,781

THE MINES BRANCH

Amount of Bituminous Coal used making Coke:

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Group 2: Crownsnest	8,597	8,001	8,725	7,543	4,006	4,611	4,442	4,167	3,778	2,382	3,973	4,055	64,280

Amount of Bituminous Coal Put to Stock by areas during each month:

	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Group 1: Cascade	171	571	197	477	656	565	477	450	201	360	535	393	5,053
Nordegg	97	45	225	25	17	98	135	150	36	200	19	347	1,394
Group 2: Crownsnest	323	3,261	710	152	14	1,602	1,130	375	.....	4,268	815	.....	12,650
Mountain Park .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Group 3: Coalspur	105	65	17	106	43	17	34	223	481	.....	423	28	1,542
Halcourt .....	.....	.....	.....	12	.....	.....	.....	.....	.....	.....	.....	.....	12
Lethbridge .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	8	8
Morley .....	.....	200	87	.....	.....	217	.....	.....	27	40	.....	.....	571
Prairie Creek .....	.....	.....	100	.....	.....	.....	.....	.....	.....	.....	.....	.....	100
No Area .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	20	24	44
Total	696	4,142	1,336	772	730	2,499	1,776	1,198	745	4,868	1,812	800	21,374

Amount of Sub-Bituminous Coal Put to Stock by areas during each month:

	20	10	5	70	202	435	11,953	10,295	7,345	9,059	8,419	2,536	61,520
Group 4:													
Ardley	20	10	5										35
Big Valley			25					3,424	3,072	48	207	142	422
Brooks							1,887	100	114	1,516	1,052	79	11,030
Carbon	45						60					99	418
Champion													
Drumheller	243	136	253	70	202	405	369	130	608	135	110	145	2,806
Edmonton							523	706	840			40	2,109
Pembina													
Taber	3,543	16	6,898				9,114	5,885	2,695	7,360	7,050	1,995	44,540
Whitecourt									16			16	48
Group 5:													
Canrose	12												12
Redcliff						30							30
Tofield								50					50
Westlock												20	20
Total	3,863	162	7,181	70	202	435	11,953	10,295	7,345	9,059	8,419	2,536	61,520

Amount of Bituminous Coal Put to Waste by areas during each month:

	48	5		12	30	35	22		24	52	45	45	318
Group 1:													
Cascade													
Group 2:													
Crowsnest	10,306	8,196	7,357	6,698	5,803	7,020	6,917	7,355	6,800	376	7,895	7,523	82,246
Group 3:													
Coalspur	1,388	1,598	1,748	1,907	2,057	2,228	1,188	1,538	2,047	1,439	2,326	2,434	21,898
Lethbridge	17	22	18	16	15	11	15	18	14	17	24	20	207
Pincher	8	5								5	8	12	38
Total	11,767	9,826	9,123	8,633	7,905	9,294	8,142	8,911	8,885	1,889	10,298	10,034	104,707

THE MINES BRANCH

Amount of Sub-Bituminous Coal Put to Waste by areas during each month:

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Group 4:													
Arley	105	25	40		35		5	20	37				105
Big Valley	75	463	321	138	6	22	10	39	2,915	3,032	2,996	2,553	237
Brooks	697	42	28	62	20	39	24	19	78	557	717	60	11,496
Carbon	42	34	2,199	1,854	541	1,687	945	2,923	81	114	144	92	3,108
Champion	2,317	2,430							1,820	810	2,077	1,776	969
Drumheller										320	56	25	21,379
Edmonton	10	7							60				401
Fennibina	615	105	901	55	25	56	432	4,888	593	4,183	5,530	4,855	77
Taber													22,238
Group 5:													
Camrose	73	24	49	6	5	3	1	5	12	67	98	56	399
Castor	154	74	41	28	10	9	33	70	85	150	340	235	1,229
High Prairie	7												7
Rochester										30	45	15	90
Sheerness					253	151	4	425	336	809	938	760	4,040
Tofield	17	194	94							90			90
Total	4,112	3,356	3,673	2,202	895	1,967	1,454	8,389	6,017	10,162	12,911	10,427	65,565

Amount of Bituminous Coal Lifted from Stock by areas during each month:

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Group 1:													
Cascade	252	171	571	197	477	656	565	477	450	201	360	535	4,912
Nordeg	10		11	24	275		34	58	110	23	260		805
Group 2:													
Crowsnest	2,714			749	1,104	741	260	1,565	2,419			716	10,268
Group 3:													
Coalpur	11	142	209	85	411	258	403	17	51	167	735	99	2,588
Morley					88			310					398
Total	2,987	313	791	1,055	2,355	1,655	1,262	2,427	3,030	391	1,355	1,350	18,971

THE MINES BRANCH

Number of men employed in the BITUMINOUS FIELD as at December 31st, 1945:

Areas	UNDERGROUND										ABOVE GROUND										TOTAL				
	Officials	Hand Cutters	Machine Cutters & Helpers	Machine Loaders	Chute Loaders	Horse H'ge Employees	Mechanical H'ge Emp's	Ventilation Employees	Road Makers	Timber Men	Pump Men	Other Employees	Total Underground	Adminis- tration	Foremen and Clerks	Screenmen and Loaders	Engine Men	Firemen	Machinists	Carpenters and Masons		Other Mechanics	Surface Haulage	All Other Employees	Total Above Ground
Group 1:	20	78	9	11	..	7	25	2	7	5	..	11	175	1	17	30	4	8	4	2	..	..	66	132	307
Cascade	14	112	..	..	..	43	16	5	31	17	4	..	242	2	15	6	..	11	5	9	10	..	2	140	442
Group 2:	109	852	24	14	132	38	137	17	34	137	4	126	1,624	31	70	137	21	20	20	24	69	21	139	552	2,176
Crowsnest	40	214	4	..	20	26	53	3	7	53	2	64	486	5	36	52	10	25	13	12	23	1	94	271	757
Mountain Park	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Group 3:	11	34	83	102	20	19	10	6	7	33	6	12	343	11	39	72	20	26	7	16	15	15	113	334	677
Coalspur	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3
Halcourt	1	2	34	234	..	55	45	4	13	29	5	50	507	3	27	46	9	2	12	4	16	5	40	165	672
Lethbridge	32	6	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4
Morley	1	2	..	..	..	..	..	..	..	..	..	1	4	..	1	..	..	..	..	..	..	..	..	1	4
Pekisko	1	3	..	..	..	..	..	..	..	..	..	2	3	..	..	..	..	..	..	..	..	..	..	..	5
Pincher	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3
Prairie Creek	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Saunders	7	..	10	51	..	4	9	..	2	2	..	3	88	2	7	13	5	2	1	1	1	2	2	35	123
No Area	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	3	..	..	..	..	..	..	1	6	6
Total	237	1,303	164	412	172	192	295	37	101	276	21	269	3,479	55	213	359	70	94	62	68	134	46	595	1,696	5,175

THE MINES BRANCH

Men employed above and below ground in the BITUMINOUS FIELD by areas during each month:

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Monthly Average
Group 1:													
Cascade	299	304	302	303	305	306	312	306	305	305	308	307	305
Nordegg	460	456	436	418	415	415	416	422	427	425	452	442	432
Group 2:													
Crowsnest	2,196	2,194	2,178	2,152	2,111	2,080	2,067	2,096	2,074	2,077	2,153	2,176	2,122
Mountain Park	871	862	842	762	846	795	792	778	752	739	761	757	796
Group 3:													
Coalspur	580	590	575	601	516	608	595	614	609	624	676	677	605
Halcourt	12	12	5	5	566	569	1	1	1	3	...	3	3
Lethbridge	716	684	652	573	566	569	554	554	566	564	637	672	609
Morley	4	3	2	2	2	2	3	3	2	3	4	4	3
Pekisko	8	8	8	7	5	6	6	6	...	4	4	5	6
Pincher	2	2	2	2	2	2	2	...	...	...	2	3	2
Prairie Creek	17	17	18	17	20	16	16	...	...	...	...	...	17
Saunders	131	130	122	117	115	115	99	111	109	105	121	123	116
No Area	10	..	..	..	..	..	..	..	..	..	..	6	8
Total	5,294	5,262	5,142	4,954	4,903	4,915	4,861	4,891	4,845	4,847	5,121	5,175	5,031

Men employed above and below ground in the SUB-BITUMINOUS FIELD by areas during each month:

Group 4:	37	25	20	10	3	7	8	9	17	24	38	33	19
Arday	25	21	16	4	21	1	8	8	14	22	30	30	17
Big Valley	53	53	47	14	73	...	48	64	73	116	111	116	69
Brooks	103	82	87	74	72	75	66	68	77	93	119	124	87
Carbon	15	15	14	12	12	11	11	13	12	12	12	13	13
Champion	2,150	2,141	2,095	1,832	1,992	1,940	1,917	1,955	1,961	2,032	2,170	2,191	2,037
Drumheller	646	606	542	402	411	398	417	427	461	498	635	656	508
Edmonton	58	53	43	32	25	32	31	32	32	48	68	68	43
Gleichen	6	6	84	5	4	4	4	5	6	7	7	7	5
Milk River	103	103	84	64	65	69	71	67	69	84	90	86	79
Pembina	80	75	61	15	15	15	80	77	83	130	158	165	80
Taber	3	3	3	2	2	2	2	2	2	2	3	4	3
Wetaskiwin	3	3	3	...	...	...	...	1	...	...	...	1	2
Whitecourt	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 5:	89	90	73	57	61	58	76	77	84	100	108	104	82
Camrose	138	114	84	42	38	47	38	54	74	98	240	185	97
Castor	3	2	...	...	...	...	...	...	...	...	...	...	2
High Prairie	1	1	...	2	...	2	2	3	1	5	3	...	2
Pakowki	26	21	16	15	15	15	14	11	19	25	27	27	16
Redcliff	12	9	6	5	2	2	2	3	4	25	24	28	18
Rochester	5	53	42	21	14	18	26	16	21	43	34	35	28
Sheerness	91	75	64	54	48	48	51	50	58	77	151	130	75
Tofield	...	...	...	...	...	...	...	...	...	...	...	4	4
Westlock	...	...	...	...	...	...	...	...	...	...	...	...	...
Total	3,662	3,552	3,304	2,722	2,801	2,744	2,872	2,942	3,068	3,430	4,028	4,008	3,278

Men employed above and below ground in the BITUMINOUS and SUB-BITUMINOUS FIELDS by areas during each month:

Bituminous	5,294	5,262	5,142	4,937	4,903	4,915	4,861	4,891	4,845	4,847	5,121	5,175	5,033
Sub-Bituminous	3,662	3,552	3,304	2,722	2,801	2,744	2,872	2,942	3,068	3,430	4,028	4,008	3,278
Total	8,956	8,814	8,446	7,659	7,704	7,659	7,733	7,833	7,913	8,277	9,199	9,183	8,311

THE MINES BRANCH

PER CAPITA PRODUCTION OF MINES IN THE PROVINCE

Year	Gross tons of coal mined	Total average No. of men employed	Tons of coal mined per man employed	Average No. of men employed underground	Tons of coal mined per man employed underground
1906	1,385,000	2,800	494	2,000	692
1907	1,834,745	3,600	509	2,700	679
1908	1,845,000	3,780	488	2,681	688
1909	2,174,329	5,207	417	3,893	566
1910	3,036,757	5,818	504	4,090	742
1911	1,694,564	6,689	253	4,517	375
1912	3,446,349	6,661	517	4,861	708
1913	4,306,346	8,068	533	5,837	737
1914	3,821,739	8,170	467	6,052	631
1915	3,434,891	6,445	532	4,493	764
1916	4,648,604	7,570	614	5,536	839
1917	4,863,414	8,310	595	6,047	804
1918	6,148,620	8,818	697	6,141	1,001
1919	5,022,412	7,573	663	5,150	958
1920	6,908,923	9,688	712	6,551	1,055
1921	5,937,195	10,018	592	7,203	824
1922	5,976,432	8,757	683	6,154	971
1923	6,866,923	9,927	687	7,249	893
1924	5,202,713	7,317	711	5,299	982
1925	5,883,394	8,774	670	6,498	834
1926	6,508,908	8,763	743	6,569	991
1927	6,936,780	9,016	768	6,681	970
1928	7,334,179	9,496	772	6,625	1,107
1929	7,147,250	9,572	747	7,115	1,004
1930	5,755,911	8,889	648	6,607	871
1931	4,563,309	8,070	577	5,969	701
1932	4,867,984	7,837	621	5,772	844
1933	4,714,784	8,042	586	5,937	794
1934	4,748,848	7,863	604	5,809	744
1935	5,462,973	7,800	700	5,644	969
1936	5,696,375	8,110	702	5,940	959
1937	5,551,682	7,836	708	5,806	956
1938	5,230,025	7,411	706	5,427	965
1939	5,518,105	7,456	740	5,517	1,000
1940	6,205,088	7,416	836	5,526	1,122
1941	6,970,064	7,714	903	5,652	1,233
1942	7,754,279	8,040	964	5,865	1,322
1943	7,677,982	8,636	889	6,197	1,160
1944	7,427,433	8,375	887	5,867	1,135
1945	7,801,248	8,309	939	5,752	1,298

PER CAPITA PRODUCTION OF MINES IN THE DOMESTIC COAL FIELD

Year	Gross tons of coal mined	Total average No. of men employed	Tons of coal mined per man employed	Average No. of men employed underground	Tons of coal mined per man employed underground
1910	878,011	2,307	380	1,676	524
1911	964,700	3,548	271	2,488	391
1912	1,341,389	2,980	450	2,283	587
1913	1,763,225	4,017	438	2,929	601
1914	1,697,401	4,219	402	3,190	532
1915	1,682,922	3,181	529	2,210	761
1916	2,172,801	4,132	525	3,137	692
1917	2,537,829	4,701	539	3,489	727
1918	3,035,061	4,896	619	3,420	887
1919	2,611,009	4,226	617	2,953	884
1920	3,359,308	5,173	647	3,723	902
1921	2,943,141	5,601	525	4,256	691
1922	3,086,669	4,981	620	3,752	823
1923	3,161,741	4,969	636	3,765	812
1924	3,096,660	4,543	681	3,447	898
1925	3,156,359	4,874	647	3,750	808
1926	3,160,029	4,798	658	3,714	816
1927	3,357,171	4,663	720	3,603	891
1928	3,378,200	4,810	702	3,700	873
1929	3,385,749	4,944	685	3,813	880
1930	2,874,090	4,822	596	3,756	765
1931	2,245,563	4,400	510	3,419	628
1932	2,574,785	4,548	566	3,539	728
1933	2,434,047	4,480	543	3,487	698
1934	2,295,566	4,289	535	3,370	644
1935—Stp. pit	130,084	96	1,355		
B. Ground	2,517,828	3,927	658	3,059	823
1936—Stp. pit	80,111	107	749		
B. Ground	2,761,120	4,112	671	3,243	851
1937—Stp. pit	80,116	79	1,014		
B. Ground	2,551,034	3,148	810	3,162	832
1938—Stp. pit	72,829	74	945		
B. Ground	2,380,434	3,573	667	2,846	801*
1939—Stp. pit	76,394	73	1,048		
B. Ground	2,372,805	3,636	653	2,900	818*
1940—Stp. pit	74,021	71	1,042		
B. Ground	2,463,184	3,556	692	2,844	866*
1941—Stp. pit	88,142	63	1,399		
B. Ground	2,625,112	3,427	766	2,745	956*
1942—Stp. pit	119,615	67	1,785		
B. Ground	3,093,496	3,485	888	2,777	1,114*
1943—Stp. pit	137,307	78	1,760		
B. Ground	3,278,730	4,016	816	3,133	1,046*
1944—Stp. pit	366,862	263	1,395		
B. Ground	2,779,939	3,565	882	2,826	984*

*See note over page.

NOTE: Alberta Coals have been re-classified and Domestic Coal is now included in the new headings "Bituminous" and Sub-B₁uminous."

PER CAPITA PRODUCTION OF MINES IN THE SUB-BITUMINOUS COAL FIELD

Year	Gross tons of coal mined	Total average No. of men employed	Tons of coal mined per man employed	Average No. of men employed under- ground	Tons of coal mined per man employed under- ground
1922—Stp. pit	367,514	217	1,692	.....	.....
B. Ground	179,550	403	445	277	648
1923—Stp. pit	288,467	190	1,513	.....	.....
B. Ground	174,994	354	494	260	673
1924—Stp. pit	369,724	211	1,752	.....	.....
B. Ground	222,222	393	565	278	799
1925—Stp. pit	335,993	162	2,074	.....	.....
B. Ground	245,842	461	533	326	754
1926—Stp. pit	258,964	147	1,761	.....	.....
B. Ground	231,407	443	545	305	758
1927—Stp. pit	304,584	194	1,583	.....	.....
B. Ground	290,606	478	608	321	905
1928—Stp. pit	394,682	179	2,205	.....	.....
B. Ground	345,810	643	536	457	756
1929—Stp. pit	319,764	163	1,962	.....	.....
B. Ground	348,344	585	595	402	866
1930—Stp. pit	304,144	157	1,937	.....	.....
B. Ground	299,187	569	526	390	767
1931—Stp. pit	280,251	161	1,803	.....	.....
B. Ground	191,138	486	393	336	569
1932—Stp. pit	348,266	177	1,862	.....	.....
B. Ground	211,213	491	430	341	619
1933—Stp. pit	309,365	170	1,820	.....	.....
B. Ground	244,776	516	474	370	661
1934—Stp. pit	302,054	158	1,912	.....	.....
B. Ground	235,488	482	489	326	722
1935—Stp. pit	287,970	180	1,600	.....	.....
B. Ground	278,466	501	830	337	826
1936—Stp. pit	263,899	175	1,508	.....	.....
B. Ground	302,587	532	569	360	841
1937—Stp. pit	229,747	149	1,542	.....	.....
B. Ground	276,782	504	549	348	795
1938—Stp. pit	227,317	148	1,536	.....	.....
B. Ground	261,593	633	772	327	800*
1939—Stp. pit	246,459	142	1,735	.....	.....
B. Ground	265,646	494	538	320	830*
1940—Stp. pit	318,425	241	1,321	.....	.....
B. Ground	280,261	393	713	328	854*
1941—Stp. pit	320,801	272	1,179	.....	.....
B. Ground	264,652	384	689	248	1,069*
1942—Stp. pit	332,748	191	1,742	.....	.....
B. Ground	400,799	521	769	342	1,172*
1943—Stp. pit	351,890	360	967	.....	.....
B. Ground	440,062	442	996	399	1,102*
1944—Stp. pit	280,420	161	1,742	.....	.....
B. Ground	449,007	589	973	386	1,163*
1945—Stp. pit	833,129	330	2,525	.....	.....
B. Ground	2,367,356	2,915	812	2,379	991

PER CAPITA PRODUCTION OF MINES IN THE BITUMINOUS COAL FIELD

Year	Gross tons of coal mined	Total average No. of men employed	Tons of coal mined per man employed	Average No. of men employed underground	Tons of coal mined per man employed underground
1910	1,896,961	2,981	636	2,076	914
1911	649,745	2,645	246	1,820	357
1912	1,926,371	3,243	594	2,353	818
1913	2,374,401	3,562	666	2,645	897
1914	1,953,367	3,529	553	2,632	742
1915	1,626,237	2,921	557	2,103	773
1916	2,335,259	3,142	743	2,258	1,034
1917	2,206,868	3,335	661	2,429	909
1918	2,982,334	3,686	820	2,597	1,109
1919	2,325,787	3,118	745	2,100	1,108
1920	3,410,021	4,228	809	2,711	1,202
1921	2,897,380	4,133	701	2,820	1,026
1922	2,214,273	3,034	729	2,084	1,062
1923	3,241,614	4,345	746	3,215	1,008
1924	1,515,107	2,171	698	1,574	966
1925	2,145,200	3,277	654	2,422	885
1926	2,858,508	3,375	847	2,550	1,121
1927	2,984,419	3,682	810	2,757	1,082
1928	3,215,481	3,862	832	2,468	1,302
1929	3,093,393	3,880	797	2,898	1,077
1930	2,278,490	3,341	682	2,461	926
1931	1,846,357	3,023	611	2,214	834
1932	1,733,720	2,621	660	1,892	916
1933	1,726,596	2,876	600	2,080	830
1934	1,915,740	2,934	653	2,113	907
1935	2,248,625	3,096	726	2,248	1,000
1936	2,288,658	3,184	719	2,337	979
1937	2,414,003	3,156	765	2,295	1,052
1938	2,287,850	3,131	731	2,254	1,015
1939	2,556,801	3,111	822	2,297	1,113
1940	3,069,197	3,155	972	2,354	1,303
1941	3,671,357	3,568	1,029	2,659	1,381
1942	3,807,619	3,766	1,008	2,746	1,387
1943	3,469,993	3,740	927	2,665	1,302
1944—Stp. pit	119,092	35	3,403		
B. Ground	3,432,113	3,762	935	2,655	1,293
1945—Stp. pit	491,736	209	2,364		
B. Ground	4,109,027	4,825	852	3,373	1,218

PER CAPITA PRODUCTION OF MINES IN THE ANTHRACITE COAL FIELD

1910	261,785	530	493	338	774
1911	80,119	500	160	209	383
1912	178,589	438	407	225	793
1913	168,720	489	345	263	641
1914	170,971	422	405	230	743
1915	125,732	343	366	180	698
1916	140,544	296	474	141	996
1917	118,717	284	418	129	920
1918	131,225	286	458	124	1,058
1919	85,616	229	374	95	901
1920	130,594	287	455	117	1,116
1921	96,674	284	341	127	761
1922	40,417	112	361	41	986
1923	107	69	1	9	12

NOTE.—The table showing the number of men employed in the Anthracite Coal Field, includes employees at the briquetting plant. There has been no anthracite coal produced since 1923.

*Calculating the total per capita production for men employed underground, the tonnage mined from stripping pits was deducted and only the tonnage produced from mines was used.

It will also be noted that the tonnage used in the above and following tables does not include tonnage extracted under permit.

NOTE.—Previous to 1944 there was no coal mined in the Bituminous Field by stripping methods.

THE MINES BRANCH

Number of days on which Coal was drawn in the BITUMINOUS FIELD by areas during each month:

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Group 1:													
Cascade	25.0	13.0	22.0	17.0	24.0	25.5	25.0	23.0	23.5	16.5	25.0	23.5	263.0
Nordeg	24.0	24.0	25.0	24.0	23.0	26.0	24.0	25.0	23.0	8.0	24.0	22.0	272.0
Group 2:													
Crowsnest	23.42	19.14	21.14	19.85	19.0	20.3	21.71	20.7	16.7	8.16	21.33	22.7	234.15
Mountain Park	24.25	22.75	24.0	24.33	21.4	23.0	25.0	24.0	23.0	14.66	25.33	23.3	275.02
Group 3:													
Coalspur	19.25	20.25	25.0	23.5	24.2	25.7	19.75	24.0	23.5	13.73	25.0	23.6	267.48
Halcourt	19.75	19.5	10.5	16.0	16.0	17.5	22.0	21.0	21.0	22.0	22.0	18.0	151.0
Lehrbridge	24.0	21.5	14.71	19.0	14.3	17.5	18.83	20.83	19.4	9.83	20.5	18.6	214.75
Morley	25.0	20.0	20.0	20.0	20.0	20.0	22.0	20.0	20.0	9.0	18.0	13.0	164.0
Pekisko	22.0	22.0	22.0	16.0	10.0	12.0	22.0	15.0	.....	.....	7.0	12.0	156.0
Fincher	22.0	18.0	6.0	14.0	.....	6.0	.....	.....	.....	.....	.....	.....	85.0
Prairie Creek	14.0	24.0	26.0	.....	22.5	22.0	20.0	.....	.....	.....	.....	.....	128.50
Saunders	23.5	23.0	24.5	22.5	22.5	23.0	14.0	25.0	22.5	8.5	24.5	22.5	256.0
No. Area	10.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	10.0
Total	21.18	20.6	20.07	20.02	19.99	19.7	21.22	22.25	21.4	12.26	21.26	19.2	239.15

Number of days on which Coal was drawn in the SUB-BITUMINOUS FIELD by areas during each month:

Group 4:	17.92	13.44	10.25	5.0	3.0	7.5	8.0	14.2	9.62	21.0	19.88	18.6	148.41
Ardley	22.0	20.33	12.67	10.0	18.33	.....	9.5	20.6	22.0	22.0	25.33	20.0	200.86
Big Valley	26.0	24.0	27.0	.....	.....	.....	21.0	19.5	13.0	21.0	27.0	23.0	201.50
Brooks	20.35	16.5	15.5	12.27	12.0	10.4	14.0	17.5	18.4	17.46	23.76	18.1	196.24
Carbon	26.5	23.0	18.5	22.5	15.0	18.5	15.0	22.0	23.0	26.5	26.0	24.5	261.0
Champion	21.38	21.45	20.81	18.11	18.21	22.8	14.04	22.43	19.14	9.72	24.26	22.2	234.55
Drumheller	23.37	20.22	17.73	16.95	16.5	17.4	16.04	18.3	19.2	19.59	20.48	22.3	228.38
Edmonton	21.8	20.4	16.8	16.0	14.8	16.6	16.4	23.0	17.6	22.2	24.0	21.2	229.60
Gleichen	16.0	6.5	6.0	13.0	4.0	8.5	18.0	13.0	23.0	26.5	26.0	19.0	179.50
Milk River	18.0	21.5	17.16	18.0	18.0	10.0	17.33	18.0	11.0	10.0	20.25	20.7	199.64
Pembina	17.25	20.67	13.0	14.5	19.0	12.5	15.33	22.2	17.0	25.0	24.0	19.2	219.65
Taber	18.0	10.0	10.0	8.0	5.0	5.0	10.0	8.0	15.0	25.0	25.0	18.0	157.00
Wetaskiwin	7.0	5.0	4.0	.....	.....	.....	.....	.....	.....	.....	.....	8.0	24.0
Whitecourt .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Group 5:	20.16	15.5	13.6	16.5	18.6	16.3	17.0	19.0	21.0	19.5	22.0	21.5	220.66
Camrose	19.51	15.42	10.75	9.52	9.3	12.0	10.54	13.53	15.7	19.04	23.42	20.0	178.73
Castor	20.0	6.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	26.0
High Prairie	11.0	7.0	10.0	5.5	7.0	8.0	7.0	6.0	15.0	18.0	17.0	14.0	125.50
Pakowki	19.0	14.0	5.0	9.0	13.0	17.0	24.0	26.0	23.0	27.0	27.0	24.0	229.0
Redcliff	26.0	24.0	13.5	8.5	2.0	4.0	4.0	9.0	12.0	20.0	26.0	25.0	174.0
Rochester	13.0	17.44	17.0	15.75	9.6	6.0	9.75	16.33	17.0	16.33	20.4	20.0	178.60
Sheerness	23.75	18.75	15.5	13.0	15.25	13.25	15.5	14.0	18.4	25.0	25.4	23.4	221.20
Tofield .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	14.0	14.0
Westlock .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total	19.43	16.24	13.74	12.89	12.14	13.13	13.78	16.94	17.35	20.57	25.53	19.8	199.54

Number of days on which Coal was drawn each month:

Bituminous	21.18	20.6	20.07	20.02	19.99	19.7	21.22	22.25	21.4	12.26	21.26	19.2	239.15
Sub-Bituminous	19.43	16.24	13.74	12.89	12.14	13.13	13.78	16.94	17.35	20.57	23.53	19.8	199.54
Total	20.3	18.42	16.91	16.46	16.06	16.10	17.50	19.58	19.38	16.41	22.39	19.5	219.34

THE MINES BRANCH

Total number of shifts worked above and below ground by areas during each month for the six months ending June 30, 1945:

BITUMINOUS FIELD

Areas	January		February		March		April		May		June		Total Jan. to June	
	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground
Group 1:														
Cascade	2,953	3,904	2,669	3,669	2,718	3,504	2,774	3,747	2,747	3,841	3,026	4,142	16,887	22,807
Nordeg	4,773	5,310	4,832	5,262	5,016	5,387	4,216	4,606	4,151	4,696	4,333	5,075	27,321	30,336
Group 2:														
Crowsnest	13,450	34,607	11,894	29,560	12,945	32,935	12,767	30,913	12,372	28,672	13,484	32,227	76,912	188,914
Mountain Park	6,620	13,347	5,715	12,882	8,342	11,811	5,941	11,911	6,938	11,496	8,407	9,585	41,963	71,032
Group 3:														
Coalspur	7,449	5,490	6,537	5,845	7,343	6,800	7,193	6,441	7,709	6,374	9,706	5,165	45,937	36,115
Halcourt	4,167	12,032	3,749	10,523	3,506	8,626	3,163	8,073	2,708	5,446	3,427	8,169	20,720	52,869
Lethbridge	24	72	22	60	22	40	16	40	12	36	18	56	60	312
Moniey	25	127	22	120	22	129	16	62	12	36	18	56	115	530
Pekisko	22	22	22	18	22	6	14	14	54	6	6	6	120	66
Princher Creek	112	123	117	233	124	223	811	1,754	254	441	126	195	733	1,215
Saunders	852	2,051	849	1,905	879	1,922	811	1,754	810	1,660	833	1,717	5,034	11,009
No Area	165												165	
Total	40,612	77,085	36,474	70,225	40,950	71,399	36,895	67,561	37,755	62,702	43,366	66,419	236,052	415,391

Total number of shifts worked above and below ground by areas during each month for the six months ending December 31, 1945:

BITUMINOUS FIELD

Areas	July		August		September		October		November		December		Total July to Dec.		Total for year 1945	
	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground
Group 1:																
Cascade	3,231	4,003	2,388	2,756	2,827	3,483	2,125	1,625	3,113	3,915	2,916	3,284	16,600	19,066	33,487	41,873
Nordegg	5,024	4,384	4,304	4,478	3,631	4,228	2,982	2,301	4,668	5,103	4,325	4,393	24,834	24,887	52,155	55,223
Group 2:																
Crowsnest	12,898	30,776	13,233	30,679	10,572	25,108	7,593	13,144	12,632	30,395	12,288	30,966	69,216	161,068	146,128	349,982
Mountain Park	7,581	9,695	6,228	10,663	6,218	9,300	6,103	6,720	6,276	11,246	6,165	9,958	38,571	57,582	80,534	126,614
Group 3:																
Coalspur	6,503	5,872	7,936	5,908	7,503	6,416	8,282	3,886	8,289	7,265	8,226	6,861	46,739	36,208	92,676	72,323
Halcourt	22	23	23	23	21	21	25	25	66	66	18	18	175	175	121	361
Lethbridge	3,364	7,958	3,545	9,361	3,131	7,498	2,422	4,108	3,927	10,745	3,685	10,113	20,074	49,783	40,794	102,652
Morley	60	60	60	41	15	40	27	27	54	54	12	84	120	160	144	472
Pekisko	24	72	15	41	15	40	12	48	36	43	39	30	78	288	193	818
Pincher Creek	101	188	827	1,681	770	1,588	440	700	855	14	798	1,911	101	188	834	1,403
Saunders	473	904	827	1,681	770	1,588	440	700	855	2,037	798	1,911	4,163	8,821	9,197	19,830
No Area															165	
Total	39,259	63,874	38,536	65,590	34,667	57,682	29,859	32,584	39,796	70,883	38,454	67,657	220,571	358,270	456,623	773,661

THE MINES BRANCH

Total number of shifts worked above and below ground by areas during each month, for the six months ending June 30, 1945:

SUB-BITUMINOUS FIELD

Areas	January		February		March		April		May		June		Total Jan. to June	
	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground
Group 4:														
Ardley	267	295	74	223	34	172	4	55	3	6	30	385	778	
Big Valley	45	367	49	285	25	201		36	199			193	1,088	
Brooks	1,408		1,302		1,269		354		74			4,333		
Carbon	641	1,593	480	1,092	450	1,188	293	823	323	275	886	2,462	6,410	
Champion	26	272	22	222	22	181	21	207	10	16	150	117	1,144	
Drumheller	10,752	37,528	9,783	34,178	9,737	34,630	8,349	28,999	7,779	11,256	31,130	57,656	191,492	
Edmonton	2,822	11,845	2,369	9,702	2,186	7,382	1,331	5,571	1,887	5,566	2,114	13,309	46,014	
Gleichen	183	1,072	172	1,021	155	641	107	433	84	333	111	812	3,961	
Milk River	52	24	18	8		8	20	18	3	7	5	98	79	
Pembina	712	1,456	1,444	409	460	862	335	709	311	327	752	3,589	4,939	
Taber	1,298	225	1,447	237	776	165	184	118	180	183	94	4,068	923	
Wetaskiwin		80		80		80		20			30	310	310	
Whitecourt	7	14	10	8	4	4		20			30	21	26	
Group 5:														
Camrose	1,121	981	163	1,006	652	910	506	693	688	624	653	4,483	4,850	
Castor	487	2,264	336	1,482	246	863	139	370	143	342	432	1,587	5,753	
High Prairie		60											72	
Pakowki		11		2		10	1	10		7	8	3	61	
Redcliff	99	338	71	158	44	104	55	79	49	111	63	381	904	
Rochester	290		165		108		50		4					
Sheerness	24	42	1,138	36	18		396	24	318	6	2	2,718	128	
Tofield	1,693	156	1,394	120	1,208	24	933	16	966	26	12	7,163	354	
Total	21,927	58,623	21,139	50,294	17,901	47,443	13,678	38,181	12,819	34,046	16,539	104,003	269,286	

SUMMARY

Bituminous	40,612	77,085	36,474	70,225	40,950	71,399	36,895	67,561	37,755	62,702	43,366	66,397	236,052	415,391
Sub-Bituminous	21,927	58,623	21,139	50,294	17,901	47,443	13,678	38,181	12,819	34,046	16,539	40,699	104,003	269,286
Total	62,539	135,708	57,613	120,519	58,851	118,842	50,573	105,742	50,574	96,748	59,905	107,096	340,055	684,677

Total number of shifts worked above and below ground by areas during each month, for the six months ending December 31, 1945:

SUB-BITUMINOUS FIELD

Areas	July		August		September		October		November		December		Total July to Dec.		Total for year 1945	
	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground
Group 4:																
Ardley	6	80	10	75	34	130	65	366	155	356	198	244	468	1,251	853	2,099
Big Valley	9	80	26	92	24	175	46	312	129	489	124	368	358	1,536	551	2,024
Brooks	5,923	1,191	1,191	898	1,423	969	2,486	957	2,456	681	2,032	377	1,843	15,511	19,844	2,624
Carbon	281	655	369	209	386	212	27	969	26	1,951	24	235	2,661	7,273	5,123	13,683
Champion	117	1,150	23	34,409	23	212	27	14,143	9,841	37,557	9,238	35,915	50,031	170,894	107,707	362,456
Drumheller	6,838	21,550	10,163	8,987	8,987	27,390	5,564	6,177	4,251	10,218	3,047	10,168	16,001	44,925	29,310	90,339
Edmonton	1,757	5,124	2,321	6,402	2,185	6,838	2,400	926	173	1,420	149	1,243	703	3,069	1,515	9,040
Gleichen	104	342	110	603	71	525	96	128	78	1,235	58	80	237	469	335	548
Milk River	34	79	22	80	21	80	79	128	521	1,269	491	1,083	2,332	5,158	5,921	10,097
Pembina	368	701	320	642	334	683	298	760	606	2,260	178	1,083	2,027	1,142	24,339	2,065
Taber	946	102	1,758	132	806	228	503	228	6,060	75	64	64	20,271	269	579	579
Wetaskiwin		20		20		40	50				8	16	8	16	29	42
Whitecourt																
Group 5:																
Canrose	749	690	869	738	960	836	1,405	645	1,464	1,063	1,239	1,164	6,686	5,136	11,169	9,986
Castor	27	346	134	725	153	803	320	1,404	1,674	2,414	2,268	2,214	4,576	7,906	6,163	13,659
High Prairie																
Pakowki	7	11	6	11		15	41	39	19	19	14	145	66	1,706	69	206
Redcliff	87	135	110	141	70	221	134	739	155	428	124	442	1,061	1,706	1,061	2,610
Rochester	8	33	33	12	58	259	259	417	601	96	417	72	1,376	2,992	2,001	420
Sheerness	257	6	267	12	326	10	551	96	657	239	487	237	2,545	626	5,263	98
Tofield	836	18	896	32	859	50	50	50	1,907	239	2,404	88	6,902	626	14,065	88
Westlock											66	66	66	88	66	88
Total	18,204	30,007	18,637	45,273	16,130	39,097	19,403	26,947	30,848	58,240	28,407	55,686	131,629	255,250	235,632	524,536

TOTAL BITUMINOUS AND SUB BITUMINOUS COAL FIELDS

Bituminous	39,259 18,204	63,874 30,007	38,536 18,637	65,590 45,273	34,667 16,130	57,682 39,097	32,584 26,947	39,796 30,848	70,883 58,240	38,454 28,407	67,657 55,686	220,571 131,629	358,270 235,250	456,623 235,632	773,661 524,536
Sub-Bituminous															
Total	57,463	93,881	57,173	111,863	50,797	96,779	59,531	70,644	129,123	66,861	123,343	352,200	613,520	692,255	1,298,197

THE MINES BRANCH

AMOUNT OF MINE TIMBER USED DURING THE YEAR
BITUMINOUS COAL FIELD

Areas	Round Timber, lineal feet	Lumber, B.M. feet	Ties, lineal feet	Lagging, lineal feet	Slabs, cords	R.R. ties
Group 1:						
Cascade	360.978	...		32.436		
Nordegg	1,420.533					
Group 2:						
Crowsnest	3,851.139	1,354.816	10,800	2,059.258	25.515	
Mountain Park	1,326.476	488.400		885	498	
Group 3:						
Coalspur	563.360					
Halcourt	1,000					
Lethbridge	2,499.812	46.669	42.768		33	
Morley	6,800					
Pekisko	2,000					
Pincher	1,300					
Prairie Creek	12,000		5,000			
Saunders	205,865		77,800	48,240	20,000	
Total	10,251.263	1,889,885	136,368	2,140,819	46,046	

SUB-BITUMINOUS COAL FIELD

Group 4:						
Ardley	32,386					
Big Valley	167,000					
Carbon	176,487					
Champion	30,000					
Drumheller	7,192.576		250,263		2,685	
Edmonton	1,692,077		57,303			
Gleichen	57,300					
Milk River	6,700					
Pembina	203,000					
Taber	9,600					
Wetaskiwin	7,500					
Group 5:						
Camrose	140,735					
Castor	183,179					
Pakowski	3,080					
Redcliff	35,000					
Sheerness	3,000					
Tofield	23,600					
Westlock	2,000		450		1,000	
Total	9,964,720		308,016		3,685	

PARTICULARS OF LAMPS IN THE DOMESTIC COAL FIELD

	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944
Portable Electric Lamps, Edison Cap Type	2,481	2,521	2,634	2,556	2,792	2,310	2,300	2,148	2,123	2,071	2,126	2,051	2,259	2,193
Portable Electric Lamps, Wheat Cap	66	66	66	66	66	58	58	104	31	31	30	34	40	
Portable Electric Lamps, Wolfe Cap Type	160	174	242	191	244	308	244	95	177	207	232	215	209	159
Safety Lamps, Wolfe Flame Type			3	3	3	4	4	26	27	48	25	26	24	23
Safety Lamps, Koehler Flame Type														
Total	2,707	2,761	2,879	2,813	3,039	2,618	2,606	2,373	2,395	2,357	2,413	2,326	2,532	2,375

PARTICULARS OF LAMPS IN THE SUB-BITUMINOUS COAL FIELD

Portable Electric Lamps, Edison Cap Type	387	350	357	453	275	297	372	389	449	430	580	561	578	593
Portable Electric Lamps, Wolfe Flame Type	51	59	39	46	39	38	45	39	41	45	44	32	21	35
Safety Lamps, Wolfe Flame Type														
Total	438	409	396	499	314	335	417	428	490	475	624	593	599	628

PARTICULARS OF LAMPS IN THE BITUMINOUS COAL FIELD

Portable Electric Lamps, Edison Cap Type	4,458	3,005	2,922	2,638	2,743	2,607	2,788	2,745	2,517	2,712	3,119	3,290	3,126	3,175
Portable Electric Lamps, Wolfe Cap Type	7	7	20	20	25	25	25	25	25	25	25	25	25	25
Safety Lamps, Wolfe Flame Type	353	337	318	329	324	327	321	319	265	268	284	247	238	276
Total	4,818	3,342	3,240	2,987	3,067	2,959	3,134	3,089	2,772	2,980	3,403	3,537	3,364	3,451

THE MINES BRANCH

PARTICULARS OF LAMPS IN THE BITUMINOUS COAL FIELD
DURING THE YEAR 1945

Portable Electric Lamps, Edison Cap Type	4,301
Portable Electric Lamps, Wolfe Cap Type	233
Total	4,534

PARTICULARS OF LAMPS IN THE SUB-BITUMINOUS COAL FIELD
DURING THE YEAR 1945

Portable Electric Lamps, Edison Cap Type	1,605
Portable Electric Lamps, Wolfe Cap Type	180
Safety Lamps, Koehler Flame Type	19
Total	1,804

QUANTITY OF EXPLOSIVES USED IN POUNDS FOR BLASTING COAL:
BITUMINOUS COAL FIELD

Areas	Names of Explosives					Total
	Pellets	Polar Monobel No. 4	Polar Monobel No. 14	Cardox	Dynamite 40%	
Group 1:						
Cascade		53,650	130			53,780
Group 2:						
Crownsnest		71,046		11,529		82,575
Mountain Park		97,265	150		2,500	99,915
Group 3:						
Coalspur		104,662	4,264		25,335	134,261
Lethbridge	2,166	26,654	27,564	42,850		99,234
Morley			850			850
Pekisko			3,600			3,600
Pincher		50	30			80
Prairie Creek	700	1,500				2,200
Saunders	5,800		9,714			15,514
Total	8,666	354,827	46,302	54,379	27,835	492,009

SUB-BITUMINOUS COAL FIELD

Areas	Names of Explosives								Total
	Pellets	Polar Monobel No. 4	Polar Monobel No. 14	Cardox	Stopeite 30%	Dynamite 40%	Stumping Powder	Loose Black	
Group 4:									
Ardley	4,400		740						5,140
Big Valley	1,600								1,600
Brooks	6,000		400						6,400
Carbon	9,849	150	1,125						11,124
Champion	15,050								15,050
Drumheller	138,075	3,500	94,582	16,774					252,931
Edmonton	4,935	440	28,807		150				34,332
Gleichen	6,450		335						6,785
Milk River	1,140								1,140
Pembina	100	900	732						1,732
Taber	2,685		850						3,535
Wetaskiwin	200		200						400
Group 5:									
Camrose	200		4,190						4,390
Castor	12,980						2,250		15,230
Pakowski			50						50
Redcliff	3,000		60						3,060
Rochester	245		90				35		370
Sheerness	350							2,000	2,350
Tofield	10,925		2,300			1,525		2,450	17,200
Total	218,184	4,990	134,461	16,774	150	1,525	2,285	4,450	382,819

Number of tons of coal produced per pound of Explosives used for blasting coal:

BITUMINOUS COAL FIELD

Areas	Number of tons of coal mined	Number of pounds of explosive used	Tons of coal mined per pound of explosive used
Group 1:			
Cascade	318,036	53,780	5.91
Nordegg	315,857	..	..
Group 2:			
Crowsnest	1,856,540	82,575	22.48
Mountain Park	970,303	99,915	9.71
Group 3:			
Coalspur	617,286	134,261	4.59
Halcourt	649	..	..
Lethbridge	451,538	99,234	4.55
Morley	1,603	850	1.88
Pekisko	2,739	3,600	.76
Pincher	231	80	2.88
Prairie Creek	6,013	2,200	2.73
Saunders	59,926	15,514	3.86
No Area	42	..	..
Total	4,600,763	492,009	9.35

SUB-BITUMINOUS COAL FIELD

Group 4:			
Ardley	14,319	5,140	2.78
Big Valley	7,824	1,600	4.89
Brooks	220,114	6,400	34.39
Carbon	71,733	11,124	6.44
Champion	7,329	15,050	.49
Drumheller	1,722,816	252,931	6.81
Edmonton	408,068	34,332	11.88
Gleichen	18,100	6,785	2.67
Milk River	2,323	1,140	2.04
Pembina	65,009	1,732	37.53
Taber	243,978	3,535	69.01
Wetaskiwin	1,595	400	39.87
Whitecourt	150	..	..
Group 5:			
Camrose	84,836	4,390	19.32
Castor	85,605	15,230	5.62
High Prairie	85	..	..
Pakowki	385	50	7.70
Redcliff	10,470	3,060	3.42
Rochester	7,595	370	20.53
Sheerness	60,223	2,350	25.63
Tofield	167,778	17,200	9.75
Westlock	150	..	..
Total	3,200,485	382,819	8.36

THE MINES BRANCH

Estimated number of shots fired for blasting coal:

BITUMINOUS COAL FIELD

Areas	Electric Deton- ators	Electric Squibs	Fuse	Cardox Heaters	Total
Group 1:					
Cascade	43,420				43,420
Group 2:					
Crowsnest	72,949			11,529	84,478
Mountain Park	95,108				95,108
Group 3:					
Coalspur	86,833				86,833
Lethbridge	82,343	773	807	12,098	96,021
Morley	540				540
Pekisko	5,000				5,000
Pincher	180				180
Prairie Creek	3,000				3,000
Saunders	15,416	200			15,616
Total	404,789	973	807	23,627	430,196

SUB-BITUMINOUS COAL FIELD

Areas	Electric Deton- ators	Electric Squibs	Fuse	Squibs	Cardox Heaters	Total
Group 4:						
Ardley	450	2,580	2,291			5,321
Big Valley	550		350			900
Brooks	600	5,500	200			6,300
Carbon	505	4,415	7,526			12,446
Champion	5,000		2,350			7,350
Drumheller	182,804	56,433	54,419		4,793	298,449
Edmonton	41,284	644	5,542	1,900		49,370
Gleichen	50	5,990	6,660			12,700
Milk River		1,900	300			2,200
Pembina	3,145					3,145
Taber	1,700	150	535	1,400		3,785
Wetaskiwin			300			300
Group 5:						
Camrose	7,650	60	265			7,975
Castor		5,580	5,645	710		11,935
Pakowki			50			50
Redcliff	60	750	2,000			2,810
Rochester	210		245			455
Sheerness			1,220			1,220
Tofield	4,050	118	5,970			10,138
Total	248,058	84,120	95,868	4,010	4,793	436,849

Number of miss-fire shots recorded in blasting coal in the Province:
BITUMINOUS FIELD

Areas	Cardox Heaters	Electric Detonators	Electric Squibs	Fuse	Total
Group 1: Cascade		3			3
Group 2: Crownsnest		7			7
Mountain Park		20			20
Group 3: Coalspur		8			8
Lethbridge	316	1	4	2	323
Pekisko		3			3
Saunders			2		2
Total	316	42	6	2	366

SUB-BITUMINOUS COAL FIELD

Areas	Cardox Heaters	Electric Detonators	Electric Squibs	Fuse	Squibs	Total
Group 4: Ardley			4	9		13
Big Valley				3		3
Carbon		3		5		8
Drumheller	250	27	24	4		305
Edmonton		4		24		28
Gleichen			1	22		23
Taber		2		10		12
Group 5: Camrose		1		4		5
Castor			9	14		23
Redcliff			3		10	13
Tofield			2	61		63
Total	250	37	43	156	10	496

THE MINES BRANCH

Quantity of Explosives used in pounds for blasting rock in Coal-mines in the Province.

Areas	Names of Explosives									Total	
	Pellets	Polar Monobel No. 4	Polar Monobel No. 14	Dynamite 40%	Stopette 40%	Stopette 60%	CXL-ITE	Stumping Powder	Polar Forcite 40%		Polar Forcite 60%
Brooks	100	.....	500	.....	.....	.....	.....	.....	.....	500
Carbon	30	.....	.....	.....	.....	.....	.....	.....	130
Cascade	4,150	.....	.....	.....	4,150
Castor	50	.....	.....	.....	.....	.....	.....	50
Coalspur	1,000	.....	.....	16,175	17,175
Crowsnest	14,440	.....	.....	19,766	.....	.....	.....	34,166
Drumheller	8,070	550	.....	1,725	5,025	9,500	.....	.....	.....	24,870
Edmonton	1,521	.....	.....	.....	400	.....	.....	.....	1,921
Gleichen	35	.....	.....	.....	.....	.....	20	.....	.....	35
Halcourt	20
Lethbridge	470	.....	.....	.....	.....	250	.....	43,390	8,192	62,373
Mountain Park	10,791	.....	.....	.....	270
Nordegg	270	.....	.....	.....	150
Pekisko	150	.....	.....	.....	.....	.....	.....	.....	83
Pembina	64	.....	.....	.....	.....	.....	.....	.....	45
Redcliff	45	.....	.....	.....	.....	.....	.....	.....	45
Saunders	1,200	.....	.....	.....	.....	.....	.....	.....	1,300
Taber	1,550	.....	.....	.....	.....	2,000	.....	.....	.....	3,550
Total	119	10,225	3,560	14,950	1,725	5,025	48,127	20	43,390	24,367	151,508

Estimated number of shots fired for blasting rock in Coal-mines in the Province:

Areas	Electric Deton- ators	Electric Squibs	Fuse	Delay Action Deton- ators	Total
Brooks	100				100
Carbon	100		22		122
Cascade	75,000				75,000
Castor	60				60
Coalspur	2,492		121		2,613
Crowsnest	15,835			4,700	20,535
Drumheller	32,047		5,198		37,245
Edmonton	2,309		34		2,343
Gleichen			45		45
Halcourt			35		35
Lethbridge	575				575
Mountain Park	17,854				17,854
Pekisko	250				250
Pembina	68	18			86
Redcliff			90		90
Saunders	1,140				1,140
Taber	3,250				3,250
Total	151,080	18	5,545	4,700	161,343

Number of miss-fire shots recorded in blasting rock in Coal-mines in the Province:

Crowsnest	12				12
Drumheller	2				2
Mountain Park	5				5
Pembina		1			1
Taber	3				3
Total	22	1			23

THE MINES BRANCH

ELECTRICITY

The rules for the installation and use of electricity in or about mines require a return to be made to the Department on or before January 15th of each year, giving size, type and any other particulars which may be required of electrical apparatus in use above and below ground. According to the return received from the different mines, electricity was used in 75 mines in 1945. A summary of these returns regarding the horse-power of electrical apparatus in use is given below.

Areas	No. of mines using Electricity	Horse-power of electrical apparatus in use		Total Horse-power	Purchased Power
		Above Ground	Below Ground		
Ardley	1		3	3	...
Big Valley	1	55	43	98	15,400
Brooks	1	80		80	...
Camrose	2	134 ^{1/2}	25	159 ^{1/2}	81,110
Carbon	4	92 ^{1/2}	192	284 ^{1/2}	105,550
Cascade	1	1,538	100	1,638	2,940,980
Castor	2	144	3	147	40,800
Coalspur	5	2,002	520	2,522	34,800
Crowsnest	6	18,949	2,814	21,763	22,901,644
Drumheller	21	4,309	5,857	10,166	7,771,620
Edmonton	9	663	966	1,629	793,280
Gleichen	1	2	13	15	3,913
Lethbridge	4	2,059	1,421	3,480	3,010,756
Mountain Park	4	4,111	1,630	5,741	...
Nordegg	2	3,056	197	3,453	4,761,600
Pekisko	1		^{1/2}	^{1/2}	...
Pembina	1	45	65	110	...
Prairie Creek	1	^{1/2}	83	83 ^{1/2}	...
Redcliff	2	145	90	235	...
Saunders	2	113	103	216	179,200
Taber	3	184	40	224	...
Tofield	1	170		170	150,000
Total	75	37,852 ^{1/2}	14,165 ^{1/2}	52,018	42,790,653

COAL-CUTTING MACHINERY

Areas	No. of machines operated by		Tons of coal mined by	
	Elec- tricity	Com- pressed air	Elec- tricity	Com- pressed air
Ardley	1	..	2,045	...
Brooks	1	1	5,000	1,500
Camrose	1	..	9,500	...
Carbon	6	4	50,417	7,372
Cascade .....	..	37*	...	89,935
Castor	1	3	534	7,701
Coalspur .....	..	32	...	404,456
Crowsnest .....	..	230*	...	776,815
Drumheller	97	..	1,735,565	...
Edmonton	16	2	243,083	6,080
Gleichen	1	1*	3,676	557
Lethbridge	25	1	446,287	71
Milk River .....	..	1	...	1,246
Pembina	1	..	28,529	...
Prairie Creek	1	..	6,013	...
Redcliff	3	..	10,321	...
Saunders .....	..	9	...	59,925
Taber .....	..	1	...	1,910
Total	157	322	2,540,970	1,357,568

*Compressed air operated picks, 252.

ACCIDENTS

Summary table showing Accidents occurring in Mines from 1906 to 1945 inclusive, reportable under The Coal Mines Regulation Act.

Year	Output	Accidents			Tons of coal mined per accident		
		Fatal	Serious	Slight	Fatal	Serious	Slight
1906	1,385,000	10	11	20	138,500	125,909	60,250
1907	1,834,745	19	18	68	96,565	101,930	26,981
1908	1,845,000	11	38	13	167,727	48,552	141,923
1909	2,174,329	9	42	18	241,952	51,769	120,796
1910	3,036,757	61a	41	58	49,782	71,067	52,375
1911	1,694,564	7	32	45	242,080	52,955	37,658
1912	3,446,349	21	38	58	164,111	90,693	59,419
1913	4,306,346	28	60	83	152,789	71,772	51,883
1914	3,821,739	209b	44	50	18,286	86,857	76,434
1915	3,434,891	18	33	33	190,827	104,087	104,087
1916	4,638,604	20	51	34	232,430	91,149	136,723
1917	4,863,414	24	62	39	202,642	78,442	124,703
1918	6,148,620	22	60	77	279,483	102,477	79,860
1919	5,022,412	21	56	54	239,162	89,685	93,008
1920	6,908,923	29	53	38	238,733	130,371	181,814
1921	5,937,195	21	64	25	282,721	92,769	237,488
1922	5,976,432	35	38	35	170,755	157,274	170,755
1923	6,866,923	22	44	10	312,133	156,066	686,692
1924	5,203,713	21	42	40	247,796	123,898	130,093
1925	5,883,394	30	59	56	196,113	99,718	105,060
1926	6,508,908	39c	67	119	166,398	97,148	54,696
1927	6,936,780	26	76	115	266,799	91,273	60,320
1928	7,334,179	28	71	122	261,935	103,298	60,166
1929	7,147,250	31	69	98	230,556	103,583	72,931
1930	5,755,911	11	69	97	523,265	83,419	59,339
1931	4,563,309	16	75	73	285,207	60,844	62,511
1932	4,867,984	11	61	96	442,544	79,803	50,708
1933	4,714,784	6	60	109	785,797	78,580	43,255
1934	4,748,848	15	68	70	316,589	69,836	67,840
1935	5,462,973	35d	66	113	156,085	82,772	48,352
1936	5,696,375	11	79	101	517,852	72,106	56,400
1937	5,551,682	20	72	73	277,584	77,107	76,050
1938	5,230,025	21e	72	135	249,049	72,639	38,741
1939	5,518,105	17	57	180	324,594	96,809	30,657
1940	6,205,088	13	79	97	477,314	78,545	63,970
1941	6,970,064	48f	78	142	145,209	89,360	49,084
1942	7,754,279	17	92	148	456,134	84,285	52,393
1943	7,677,982	25g	73	152	307,119	105,178	50,513
1944	7,427,433	10	70	125	742,743	106,106	59,419
1945	7,801,248	23h	51	168	339,185	154,925	46,436
Total	208,302,557	1,061	2,291	3,187	196,326	90,922	65,360

a. Including thirty-one deaths caused by the Bellevue Explosion.

b. Including one hundred and eighty-nine deaths caused by the Hillcrest Explosion.

c. Including ten deaths caused by the McGillivray Creek Coal & Coke Co., Ltd. Explosion.

d. Including sixteen deaths caused by the explosion at the Lethbridge Collieries Ltd., at Coalhurst.

e. Including five deaths caused by the explosion at Hinton Collieries, Limited, Hinton.

f. Including four deaths caused by an explosion at North American Collieries, Ltd., Western Crown Mine, and twenty-nine deaths caused by an explosion at Brazeau Collieries, Ltd., Nordegg.

g. Including four deaths caused by an explosion at the Kerralta Coal Co., Lethbridge.

h. Including seven deaths caused by an explosion at Luscar Coals, Ltd., Luscar.

c, d, e, f, g—See Summary Table.

Output does not include coal produced by farmers under permit.

ACCIDENTS DURING 1945, CLASSIFIED ACCORDING TO THE COAL FIELDS IN WHICH THEY OCCURRED

Bituminous	4,600,763	17	30	111	270,633	1,533,588	41,449
Sub-Bituminous	3,200,485	6	21	57	533,414	152,404	56,149
Total	7,801,248	23	51	168	339,185	154,925	46,436

THE MINES BRANCH

COMPARISON OF PROTECTIVE CLOTHING USED FOR THE YEARS 1943, 1944, 1945:

	1943	1944	1945
Hard Hats	3,485	4,333	4,673
Safety Shoes, pairs	2,146	2,496	3,891
Goggles, pairs	352	758	687
Knee Caps, pairs	35	271	238

Comparison of Accidents per 1,000,000 tons and per 1,000 men employed, 1915-1945:

Year	Tonnage	Total No. of men employed	Fatal Accidents			Serious Accidents			Slight Accidents			Total		
			No.	Per 1,000,000 tons	Per 1,000 men employed	No.	Per 1,000,000 tons	Per 1,000 men employed	No.	Per 1,000,000 tons	Per 1,000 men employed	No.	Per 1,000,000 tons	Per 1,000 men employed
1915	3,434,891	6,445	18	5.24	2.79	33	9.63	5.12	33	9.63	5.12	84	24.45	13.03
1916	4,538,604	7,570	20	4.31	2.64	51	10.99	6.74	34	7.33	4.49	105	22.61	13.87
1917	4,863,414	8,310	24	4.93	2.88	62	12.75	7.46	39	8.02	4.69	125	25.91	15.04
1918	6,148,620	8,774	22	3.57	2.51	60	9.95	6.84	77	12.52	7.78	159	25.85	18.12
1919	5,022,412	7,573	21	4.18	2.78	56	11.15	7.39	54	10.75	7.13	131	26.28	17.30
1920	6,908,923	8,688	29	4.20	2.99	53	7.81	6.10	38	5.50	4.37	120	17.37	13.81
1921	5,937,195	10,010	21	3.54	2.10	64	10.78	6.39	25	4.23	2.50	110	18.53	10.99
1922	5,976,432	8,547	35	5.86	4.09	38	6.36	4.45	35	5.86	4.09	108	18.07	12.64
1923	6,866,923	9,927	22	3.19	2.21	44	6.39	4.43	10	1.45	1.00	76	11.07	7.65
1924	5,203,713	7,317	21	4.03	2.86	42	8.07	5.74	40	7.68	5.47	103	19.79	14.35
1925	5,883,394	8,774	30	5.10	3.40	59	10.03	3.42	56	9.52	6.38	145	34.57	25.68
1926	6,508,908	8,763	39c	5.99	4.99	67	10.29	7.65	119	10.33	13.58	225	34.57	25.68
1927	6,936,780	9,016	26	3.75	2.88	76	10.96	8.43	115	16.50	12.71	217	31.28	24.06
1928	7,334,179	9,496	28	3.82	2.96	71	9.68	7.48	122	13.63	12.85	221	30.12	23.27
1929	7,147,250	9,572	31	4.34	3.24	69	9.65	7.21	98	13.71	10.24	198	27.70	20.30
1930	5,755,911	8,889	11	1.91	1.24	69	11.99	7.76	97	17.20	10.90	177	30.75	19.91
1931	4,563,309	8,070	16	3.51	1.98	75	16.44	9.27	73	16.00	9.04	164	35.92	20.32
1932	4,867,984	7,837	11	2.26	1.40	61	12.53	7.78	96	19.72	12.25	168	34.51	21.43
1933	*4,714,784	8,042	16	1.27	1.75	60	12.73	7.46	109	20.99	13.55	175	37.12	21.76
1934	*4,748,848	7,863	15	3.14	1.91	68	14.31	8.65	70	14.74	8.90	153	32.21	19.45
1935	*5,462,973	7,824	35d	6.40	4.47	66	12.08	8.44	113	20.68	14.44	214	39.17	27.35
1936	*5,696,375	8,110	11	1.93	1.36	79	13.87	9.74	101	17.73	12.45	191	33.53	23.55
1937	*5,551,683	7,836	20	3.60	2.55	72	12.97	9.19	73	13.15	9.32	165	29.72	21.06
1938	*5,230,025	7,411	21e	4.01	2.83	72	13.76	9.71	135	25.81	18.21	228	43.59	30.76
1939	*5,518,105	7,456	11	3.08	2.27	57	10.33	7.65	180	32.60	24.14	254	46.03	34.06
1940	*6,203,088	7,416	13	2.00	1.76	79	12.73	10.65	97	13.62	13.08	189	30.46	25.48
1941	*6,570,064	7,714	48f	5.89	6.22	78	11.13	10.93	142	20.37	18.41	268	38.73	31.74
1942	*7,754,279	8,040	17	2.19	2.11	92	11.86	11.44	148	19.09	17.60	257	33.14	31.95
1943	*7,677,982	8,636	25g	3.26	2.89	73	9.51	8.45	152	19.80	18.60	230	32.56	28.95
1944	*7,427,433	8,375	10	1.34	1.19	70	9.42	8.35	125	16.83	14.92	205	27.60	24.47
1945	7,801,248	8,369	23	2.93	1.76	51	6.53	6.13	168	21.53	20.24	242	31.02	29.12

c. Including 10 deaths by explosion at McGillivray Creek Coal & Coke Co., Ltd., Coleman.

d. Including 16 deaths by explosion at Lethbridge Collieries Ltd., Coalhurst.

e. Including 5 deaths by explosion at Hinton Collieries Ltd., Hinton.

f. Including 4 deaths by explosion at North American Collieries, Ltd., East Coulee, and 29 deaths by explosion at Brazeau Collieries, Ltd., Nordegg.

g. Including four deaths caused by an explosion at the Kerratta Coal Co., Lethbridge.

*Output does not include coal produced by farmers under permit

THE MINES BRANCH

Number of tons produced per accident:
BITUMINOUS COAL FIELD

Areas	Output	Average No. of men employed	No. of tons produced per accident			
			Fatal	Serious	Slight	Total
Group 1:						
Cascade	318,036	305	318,036	318,036	35,337	28,912
Nordegg	315,857	432		105,286	105,286	52,643
Group 2:						
Crowsnest	1,856,540	2,129	464,135	142,811	46,413	32,571
Mountain Park	970,303	796	107,811	323,434	48,515	30,322
Group 3:						
Coalspur	617,286	605		205,762	51,440	41,152
Halcourt	649	3				
Lethbridge	451,538	609	451,538	64,505	17,367	13,280
Morley	1,603	3			1,603	1,603
Pekisko	2,739	6				
Pincher	231	2				
Prairie Creek	6,013	17				
Saunders	59,926	116	29,963			29,963
No Area	42	8				
Total	4,600,763	5,031	270,633	153,359	41,448	29,119

SUB-BITUMINOUS COAL FIELD

Group 4:						
Ardley	14,319	19				
Big Valley	7,824	17				
Brooks	220,114	69				
Carbon	71,733	87		71,733		71,733
Champion	7,329	13				
Drumheller	1,722,816	2,037	861,408	101,342	40,065	27,787
Edmonton	408,068	508	102,017	136,023	29,148	19,432
Gleichen	18,100	43				
Milk River	2,323	5				
Pembina	65,009	79				
Taber	243,978	79				
Wetaskiwin	1,595	3				
Whitecourt	150	2				
Group 5:						
Camrose	84,836	82				
Castor	85,605	97				
High Prairie	85	2				
Pakowki	385	2				
Redcliff	10,470	19				
Rochester	7,595	8				
Sheerness	60,223	28				
Tofield	167,778	75				
Westlock	150	4				
Total	3,200,485	3,278	533,414	152,404	56,149	38,101

SUMMARY

Bituminous	4,600,763	5,031	270,633	153,359	41,448	29,119
Sub-Bituminous	3,200,485	3,278	533,414	152,404	56,149	38,101
Total	7,801,248	8,309	339,185	154,925	46,436	32,237

Classification of Accidents according to output of mines which produced during the year 1945:

	Under 1,000 tons	From 1,000 to 5,000 tons	From 5,000 to 10,000 tons	From 10,000 to 50,000 tons	From 50,000 to 100,000 tons	From 100,000 to 150,000 tons	From 150,000 to 200,000 tons	From 200,000 to 300,000 tons	Over 300,000 tons	Total
Fatal				5	3			11	4	23
Serious		1		3	5		10	15	9	51
Slight		3		17	18	14	25	57	34	168
Total		4		25	26	22	35	83	47	242

Tons of coal produced per accident:										
Fatal				156,066	285,591		83,079	205,994	521,378	339,185
Serious		148,871		260,110	171,354	90,494	33,231	151,062	231,723	154,925
Slight		49,634		45,902	47,598	51,711		39,753	61,338	46,436
Total		37,218		31,213	32,953	32,907	23,737	27,300	44,372	32,237

FATAL ACCIDENTS

William Panek, locomotive driver, age 20, on January 5th, in the mine operated by the International Coal & Coke Co. Ltd., Coleman. He was driving locomotive in 19 door D Level South, coming out at the end of the shift, and went through the door, sustaining fatal injuries.

Martin Stevaluk, miner, age 44, on February 9th, in the mine operated by West Canadian Collieries Ltd., Greenhill Mine, Blairmore. A cave-in occurred in 9, 10 and 11 pillars in 37 Section, catching him by a fall of rock and coal, causing fatal injuries.

Harry Kurtin, miner, age 53, on February 16th, in the mine operated by the Red Hot Coal Co. Ltd., Edmonton. He was digging coal in No. 9 room, 4 West Entry, when a piece struck his leg, causing fracture of right leg above the knee, from the effects of which he died.

J. A. Cooper, bottomer and haulage attendant, age 65, on February 20th, in the mine operated by Lethbridge Collieries Ltd., Lethbridge. At the shaft bottom, while he was cleaning out coal, a signal was given to lower the cage which struck him, causing death.

Albert Keith, driver, age 36, on March 16th, in the mine operated by Kent Coal Co. Ltd., Edmonton. While he was lifting a derailed car in empty car road, the horse started the trip and squeezed him between cars and timbers, causing fatal injuries.

Peter Verhaeghe, miner, age 22, on April 25th, in the mine operated by the Bighorn and Saunders Creek Collieries Ltd., Saunders. The deceased was apparently gobbling rock when a piece of roof fell off the rib side, pinning the workman's head against the coal bench.

In an explosion on May 12th, at Luscar Coals Ltd., Luscar, the following seven men lost their lives: David Astley, fireboss, age 64; Mike Zozuk, chute-loader, age 22; Pete Zozuk, chute-loader, age 17; Wm. Belik, hoistman, age 50; Steve Zayesierski, hoistman and driver, age 30; Mike Hluska, miner, age 62; David Davies, miner, age 66.

W. Pryde, miner, age 52, on May 21st, in the mine operated by McGillivray Creek Coal & Coke Co. Ltd., Coleman. While digging coal in 29 room 5 Level South, the top coal fell, knocking him down, causing fractured neck, resulting in death.

V. Rapaich, miner, age 44, on June 22nd, in the mine operated by Mountain Park Coals Ltd., Mountain Park. While moving coal down towards the battery, the face of the pillar caved, in East side pillar, 3 room No. 1 slope, burying him and causing death by suffocation.

Richard Pantaluk, miner, age 54, on June 23rd, in the mine operated by the Commander Coal Co., Drumheller. He was driving in 8 South Entry off 3 West Entry, when the horse ran away, causing him to fall off car, resulting in fatal injuries.

Frank Wohlgenuth, miner, age 42, on June 25th, in the mine operated by the Bighorn and Saunders Creek Collieries Ltd., Saunders. While mining coal in No. 8 Level off No. 7 Incline, the roof fell over centre of roadway, pinning deceased to the floor.

Imbragno Salvatore, box-car handler, aged 51, on September 25th, in the mine operated by West Canadian Collieries Ltd., Greenhill Mine, Blairmore. He was braking railroad car on the tippie track when he was crushed between car and scale-house.

Emil Skaskow, surface labourer, age 54, on September 26th, in the mine operated by the Great West Coal Co. Ltd., Clover Bar. He was releasing brake on box car in surface yard, and the brake wheel spun, taking brake stick with it, and it knocked him off the car on to the rail, resulting in death.

John Rasso, miner, age 58, on October 1st, in the mine operated by the Riverdale Coal Co., Ltd., Namao. Cave-in on the 3 East Entry opposite room No. 18, causing death by crushing and suffocation.

W. Mormyluk, miner, age 43, on November 6th, in the mine operated by Luscar Coals Ltd., Luscar. Going through retreat into pillar 30 No. 2 mine, coal fell burying him causing death by suffocation.

John Horodyski, miner, age 49, on December 7th, in the mine operated by the Canmore Mines Ltd., Canmore. A trip of six empty cars about to be lowered in the main slope No. 4 seam became detached at the clevis. Horodyski must have been on the slope when the runaway cars hit him, resulting in death.

E. A. Hartman, switcher, age 22, on December 17th, in the mine operated by the Commander Coal Co., Drumheller. He was coupling car to battery locomotive in 14 South Entry off 7 West, at 1st crosscut to 16 West, and signalled driver to move ahead, and he was queezed between top of locomotive and roof.

In addition to the above, the following deaths have occurred:

On October 16th, Stanley Petrus, miner, age 42, employed by the Luscar Coals Ltd., died on the counter at No. 24 Raise following a heart attack.

On October 24th, Martin Simla, miner, age 64, employed by McGillivray Creek Coal and Coke Co. Ltd., suffered a severe pain in his chest while at work in the 4 N. Level, from which he died in hospital three days later.

On April 23rd, Alex. Peroski, tracklayer, age 55, employed by the Western Gem and Jewel Collieries Ltd., severed his thumb while operating a power saw in the saw shed on the surface. He died five hours later while undergoing an operation.

On June 5th, C. Semenzies, miner, employed by the Midland Coal Mining Co. Ltd., Drumheller, died from natural causes while at work in 32 room 23 South.

On March 26th, John Brooks, examiner, age 60, employed in the Adanac Mine, West Canadian Collieries Ltd., died of a heart attack while following his employment.

ACCIDENTS AS THEY OCCURRED BY MONTHS DURING THE YEAR 1945:

Months	Above Ground				Under Ground				Total Above and Under Ground
	Fatal	Serious	Slight	Total	Fatal	Serious	Slight	Total	
January	4	4	1	2	15	18	22
February	1	5	6	3	3	14	20	26
March	3	3	1	3	12	16	19
April	2	3	5	1	2	8	11	16
May	3	3	8	4	16	28	31
June	3	6	9	18	18
July	2	2	3	3	10	13	15
August	1	3	..	10	8	18	21
September	2	..	3	5	7	7	10	17	20
October	1	1	5	7	7
November	4	4	1	4	19	24	28
December	1	7	8	2	2	7	11	19
Total	2	4	35	41	21	47	133	201	242

ACCIDENTS OCCURRING IN THE PROVINCE ABOVE AND UNDER GROUND DURING THE YEAR 1945:

Cause of Accident	Above Ground				Under Ground				Total Above and Under Ground
	Fatal	Serious	Slight	Total	Fatal	Serious	Slight	Total	
Haulage	2	4	6	6	17	34	57	63
Fall of rock	4	13	17	34	34
Fall of coal	4	8	19	31	31
Loading coal	1	1	..	1	9	10	11
Coal-cutting machinery	2	15	17	17
Bucking coal	2	4	6	6
Explosives	2	2	..	..	2	2	4
Explosions	7	1	1	9	9
Tippie machinery	3	3	..	..	..	..	3
Box-car handling	2	..	1	3	..	..	..	..	3
Timbering	2	12	14	14
Miscellaneous	2	24	26	..	1	20	21	47
Total	2	4	35	41	21	47	133	201	242

THE MINES BRANCH

Accidents occurring in the Province above and under ground for the year 1945,
classified according to the areas in which they occurred:

BITUMINOUS

Area	Above Ground				Under Ground				Total Above and Under Ground
	Fatal	Serious	Slight	Total	Fatal	Serious	Slight	Total	
Cascade .....	..	..	1	1	1	1	8	10	11
Crowsnest	1	1	7	9	3	12	33	48	57
Coalspur .....	..	..	3	3	..	3	9	12	15
Lethbridge .....	..	1	3	4	1	6	23	30	34
Morley .....	..	..	..	..	..	..	1	1	1
Mountain Park .....	..	..	9	9	9	3	11	23	32
Nordegg .....	..	2	1	3	..	1	2	3	6
Saunders .....	..	..	..	..	2	..	..	2	2
Total	1	4	24	29	16	26	87	129	158

SUB-BITUMINOUS

Carbon .....	..	..	..	..	..	1	..	1	1
Drumheller .....	..	..	8	8	2	17	35	54	62
Edmonton	1	..	3	4	3	3	11	17	21
Total	1	..	11	12	5	21	46	72	84

Classification of Accidents according to the Coal Fields in which they occurred:

BITUMINOUS

Cause	Above Ground				Under Ground				Total Above and Under Ground
	Fatal	Serious	Slight	Total	Fatal	Serious	Slight	Total	
Rope Haulage, caught finger between car and post							1	1	1
Rope Haulage, hit by runaway trip of cars					1				2
Rope Haulage, hit by derailed car						1	2		2
Rope Haulage, hand caught between rope and pulley							1		1
Rope Haulage, hit by rope		1		1					
Rope Haulage, caught between cars and bridge		1		1					
Rope Haulage, caught his head between car and timber						1	1	2	2
Rope Haulage, stepped in front of empty trip						1	1	2	2
Rope Haulage, hit by mine car								1	1
Horse Haulage, caught between post and end of cars								1	1
Horse Haulage, leg caught in tail chain							1	1	1
Horse Haulage, horse stepped on loose plank which hit workman's leg							1	1	1
Horse Haulage, car ran over foot							1	1	1
Horse Haulage, coal from car fell on foot								1	1
Horse Haulage, horse squeezed him against car								1	1
Hand Haulage, car wheel ran over his foot								1	1
Hand Haulage, finger caught between car and cage								1	1
Hand Haulage, caught hand between car and pipe			1	1					2
Hand Haulage, finger caught between car and post							2		2
Hand Haulage, struck by descending cage								1	1
Hand Haulage, hand caught between car and roof							1		1
Locomotive Haulage, ran into closed door					1				1
Locomotive Haulage, fell of locomotive								1	1
Locomotive Haulage, foot caught between bumper and locomotive					2	2	5	9	9
Fall of rock in room						1	2	3	3
Fall of rock in entry									
Fall of rock in pillar					2	2		4	4
Fall of rock on longwall face							2		
Fall of coal in entry						1	1	2	2
Fall of coal on longwall face									
Fall of coal in pillar					1		4	5	5
Fall of coal in room									
Loading Coal, pinched finger between lumps of coal						4	3	7	7
Loading Coal, lump of coal rolled on his hand									
Loading Coal, piece of coal rolled on his leg									
Loading Coal, partner hit him with piece of coal							1	1	1
Strip-mining, piece of machinery fell on his foot			1	1			1		1

THE MINES BRANCH

BITUMINOUS—Continued

Cause	Above Ground			Under Ground			Total Above and Under Ground
	Fatal	Serious	Slight	Total	Fatal	Serious	Total
Loading Rock, piece of rock hit his chest	1		1	1			1
Box-car Handling, squeezed between box-car and scale house				1			1
Box-car Handling, box-car cable broke and struck leg			1	1			1
Timbering, collar fell and hit his leg						1	1
Timbering, cut thumb with axe						1	1
Timbering, post fell on his leg						1	1
Timbering, lagging fell on his foot						1	1
Timbering, coal fell on him						1	1
Timbering, collar fell on his hand						1	1
Coal-cutting Machinery, machine ran over his foot						1	1
Coal-cutting Machinery, machine bar fell on his hand						1	1
Coal-cutting Machinery, jack fell on foot						1	1
Coal-cutting Machinery, machine knocked out post which fell on him						1	1
Coal-cutting Machinery, hand caught between machine and post						1	1
Coal-cutting Machinery, chain fell on his hand						1	1
Bucking Coal, hit by lump of coal						2	2
Tipple Machinery, arm caught between belt and pulley		1		1			1
Tipple Machinery, glove caught in belt lacing						1	1
Loading Machinery, hand caught in belt						1	1
Explosions, ignition of CH ₄					7		7
Coupling Cars, leg caught between bumpers of cars			2	2			2
Spragging Cars, hand caught between sprag and wheel			1	1		1	2
Explosives, hit by piece of coal while shooting			2	2			2
Chute-Loading, hit by lump of coal							
Chute-Loading, fell across chute						3	3
Miscellaneous, bar slipped and caught his finger			1	1			1
Miscellaneous, slipped and fell			3	3			3
Miscellaneous, dropped jackhammer on his foot		1		1			1
Miscellaneous, steel door fell on his toes			1	1			1
Miscellaneous, fell from box-car			1	1			1
Miscellaneous, struck by plank while using power saw							
Miscellaneous, drill steel fell on his foot						1	1
Miscellaneous, hit by slab thrown by partner						1	1
Miscellaneous, screw-jack fell on his arm						1	1
Miscellaneous, chip from hammer embedded in neck							
Miscellaneous, hit by air hose						1	1
Miscellaneous, partner hit him with hammer						1	1
Miscellaneous, loading timber, pinched fingers							
Miscellaneous, piece of rock fell on his hand							

[illegible]

SUB-BITUMINOUS

[illegible]

SUB-BITUMINOUS

Cause	Above Ground				Under Ground				Total Above and Under Ground
	Fatal	Serious	Slight	Total	Fatal	Serious	Slight	Total	
Tipple Machinery, loader chain broke and struck him			1	1					1
Tipple Machinery, caught foot in shaker conveyor			1	1					1
Coupling Cars, foot squeezed between bumpers						1			2
Coupling Cars, hand squeezed between bumpers							1		1
Explosives, hit by flying coal from shot							2		2
Miscellaneous, fell from top of box-car	1			1					1
Miscellaneous, electric drill he was using stuck, causing handle to hit face									
Miscellaneous, hit by timber while using power-saw							1		1
Miscellaneous, hit by piece of coal from chute			1	1					1
Miscellaneous, slipped and fell			5	5					6
Miscellaneous, burned by carbide lamp							1		1
Miscellaneous, machinery fell on foot			1	1					1
Miscellaneous, timcrow fell on foot							1		1
Miscellaneous, hit foot with axe			1	1					1
Total	1		11	12		5	21	46	84

SUMMARY

Bituminous	1	4	24	29	16	26	87	129	158
Sub-Bituminous	1		11	12	5	21	46	72	84
Total	2	4	35	41	21	47	133	201	242

THE MINES BRANCH

SUB-BITUMINOUS COAL FIELD

Name of Operator	Area	Above Ground			Under Ground			Total Above and Under Ground
		Fatal	Serious	Slight	Fatal	Serious	Slight	
Banner Coals, Ltd.	Edmonton					1	2	3
Beverly Coal, Ltd.	Edmonton						4	4
Brilliant Coal Co.	Drumheller			1			5	4
Commander Coal Co.	Drumheller				2	1	2	4
Edmonton Collieries, Ltd.	Edmonton			1			2	3
Empire Collieries, Ltd.	Drumheller					1	1	2
Great West Coal Co., Ltd.	Edmonton	1						1
Hy-Grade Coal Mining Co., Ltd.	Drumheller			1				1
Inland Coal Co., Ltd.	Edmonton					1		1
Kent Coal Co., Ltd.	Carbon					1		1
Maple Leaf Minerals, Ltd.	Edmonton				1			1
Midland Coal Mining Co., Ltd.	Drumheller			1				1
Monarch Coal Mining Co., Ltd.	Drumheller			2		2		3
Monarch Coal Mining Co., Ltd.	Drumheller					2		2
Murray Collieries, Ltd.	Drumheller			2				2
Newcastle Collieries, Ltd.	Drumheller					1		1
Ottewell Coal Co.	Edmonton						1	1
Red Deer Valley Coal Co., Ltd.	Drumheller			1		4		5
Regal Coal Co., Ltd.	Drumheller					2		2
Red Hot Coal Co., Ltd.	Edmonton				1			1
Riverdale Coal Co., Ltd.	Edmonton				1			1
Rosedale Collieries, Ltd.	Drumheller					1		1
Rosedale Collieries, Ltd.	Drumheller					3	4	5
E. Worotovich & M. Poniak	Edmonton					1	2	3
J. B. Starky Co., Ltd.	Edmonton			2				2
Total		1		11	5	21	46	84

SUMMARY

Bituminous	1	4	24	29	16	26	87	129	158
Sub-Bituminous	1		11	12	5	21	46	72	84
Total	2	4	35	41	21	47	133	201	242

LIST OF PROSECUTIONS INSTITUTED UNDER THE MINES REGULATION ACT, FOR THE YEAR ENDING DECEMBER 31, 1945

Mine in which Contravention was Committed	Description of Defendant	Offence Charged	Result of Proceedings	Penalty	Costs
International Coal & Coke Co. Ltd.	Mine Manager	Did not employ a trapper	Convicted	Fined \$25 and costs or 30 days in Lethbridge Jail	\$ 4.00
International Coal & Coke Co. Ltd.	Haulage hand	Did ride on car without permission of manager or overman	Convicted	Fined \$10 and costs or 14 days in Lethbridge Jail	1.50
International Coal & Coke Co. Ltd.	Haulage hand	Did ride on car without permission of manager or overman	Convicted	Fined \$10 and costs or 14 days in Lethbridge Jail	1.50
International Coal & Coke Co. Ltd.	Haulage hand	Did ride on car without permission of manager or overman	Convicted	Fined \$10 and costs or 14 days in Lethbridge Jail	1.50
International Coal & Coke Co. Ltd.	Haulage hand	Did ride on car without permission of manager or overman	Convicted	Fined \$10 and costs or 14 days in Lethbridge Jail	1.50
International Coal & Coke Co. Ltd.	Haulage hand	Did ride on car without permission of manager or overman	Convicted	Fined \$10 and costs or 14 days in Lethbridge Jail	1.50
International Coal & Coke Co. Ltd.	Haulage hand	Did ride on car without permission of manager or overman	Convicted	Fined \$10 and costs or 14 days in Lethbridge Jail	1.50
Hy-Grade Coal Mining Co. Ltd.	Miner	Did ride on coal car unlawfully	Convicted	Fined \$10 and costs or 14 days in Lethbridge Jail	1.50
Hy-Grade Coal Mining Co. Ltd.	Miner	Did ride on coal car unlawfully	Convicted	Fined \$2.00	3.65
Hy-Grade Coal Mining Co. Ltd.	Pusher	Did ride on coal car unlawfully	Convicted	Fined \$2.00	3.65
Alexander J. Johnson	Owner & Overman	Failed to devote his whole time as overman to supervision of mine, while same was being worked	Convicted	Fined \$2.00	
Mountain Park Coals Ltd.	Mucker	Did leave powder in mine	Convicted	Fined \$10.00	2.50
Mountain Park Coals Ltd.	Mucker	Did leave powder in mine	Convicted	Fined \$10.00	3.40
Mountain Park Coals Ltd.	Mucker	Did leave powder in mine	Convicted	Fined \$10.00	3.40
Mountain Park Coals Ltd.	Miner	Had smoking tobacco in his possession after receiving lamp	Convicted	Fined \$10.00	3.40
Mountain Park Coals Ltd.	Timber Packer	Had smoking tobacco in his possession after receiving lamp	Convicted	Fined \$10.00	3.40
Luscar Coals Ltd.	Miner	Had smoking tobacco and was smoking in the mine	Convicted	Imprisoned for 2 months	3.40
Mountain Park Coals Ltd.	Fireboss	Not performing his duties	Convicted	Fined \$25.00	3.40
Mountain Park Coals Ltd.	Fireboss	Not performing his duties	Convicted	Fined \$25.00	3.40
G. F. Tollestrup	Operator	Did not send the Minister a report of coal mined during December, 1944	Convicted	Fined \$10.00	3.65
Lethbridge Collieries Ltd. (Mine 1263, Standard)	Haulage Attendant	Did sleep in the mine	Convicted	Costs of Court	2.50
J. B. Starky Co., Ltd.	Shot-lighter	Did fail to see that all persons were out of reach of danger from the probable effect of such shot in that or any adjoining place, before firing shot	Convicted	Fined \$30.00	2.50
Burns Mine	Labourer	Entered mine with a naked light	Convicted	Fined \$2.00 and costs	3.50
Burns Mine	Field Superintendent	Entered the mine with a naked light and used a type of lamp not approved by the Chief Inspector of Mines	Convicted	Fined \$25.00 and costs on each of two charges	5.50

THE MINES BRANCH

BOARD OF EXAMINERS

The Provincial Board of Examiners during the year 1945 consisted of the following:

As representing:

- (a) The Mine Inspectorate: John Crawford, Chief Inspector of Mines.
 - (b) Managers: A. C. Dunn and William Wilson.
 - (c) Working Miners: Andrew Campbell and Evan Morgan.
- Secretary: Gwen Hunt.

Examinations during the year were held as follows:

For third class at the following centres: Blairmore, Cadomin, Drumheller, Edmonton, and Nordegg on May 29th.

For first and second class on June 5th, 6th and 7th at Blairmore, Cadomin, Drumheller, Edmonton and Nordegg.

For mine surveyor on June 8th at Blairmore, Cadomin, Edmonton and Nordegg.

No examinations were held during the year by the Board of Examiners for the examination of candidates for certificates of competency as mine electricians.

Thirteen candidates presented themselves for examination for first class certificates, of whom five were successful.

Twenty-four candidates presented themselves for examination for second class certificates, of whom twelve were successful.

Fifty-five candidates presented themselves for examination for third class certificates, of whom thirty-eight were successful.

Six candidates presented themselves for examination for mine surveyors' certificates, of whom three were successful.

The successful candidates for all certificates are in the list following herewith.

LIST OF NAMES OF HOLDERS OF FIRST, SECOND AND THIRD CLASS
AND MINE SURVEYORS' CERTIFICATES

Issued by the Government of the Province of Alberta during the year 1945.

FIRST CLASS

Name	Address	Cert. No.	Date of Issue
Fraser, William B.	Coleman	1	16- 7-45
Lister, Arthur L.	Cadomin	3	18- 7-45
Morgan, Owen	Saunders (duplicate) ..	19	4- 5-45
Melson, Philip	East Coulee	2	16- 7-45
Shaw, Robert	Blairmore	5	1- 8-45
Vivvurka, John	Wabamun	4	26- 7-45

SECOND CLASS

Name	Address	Cert. No.	Date of Issue
Baich, Victor	Luscar	1	16- 7-45
Courterelle, Allan F.	Drumheller	11	20- 8-45
Henderson, A. J.	Luscar	7	20- 7-45
Jones, William	Rosedale	10	30- 7-45
Kennedy, William	Coleman	4	17- 7-45
Mather, Stanley	East Coulee	8	23- 7-45
McQueen, Alexander	Mercoal	2	16- 7-45
Reed, John C.	Edmonton	3	16- 7-45
Surrendi, Nick	Wayne	6	18- 7-45
Tiberghien, A. J.	Coleman	9	24- 7-45
White, James B.	Nordegg	12	25- 8-45
Yard, Lloyd G.	Trochu	5	17- 7-45

THIRD CLASS

Name	Address	Cert. No.	Date of Issue
Budd, Kenneth J.	Coleman	3	16- 7-45
Berlando, Silvio	Rosedale	4	16- 7-45
Bianchini, Meno J.	Hillcrest	9	16- 7-45
Brown, Vernon J.	Coleman	14	16- 7-45
Butts, Russell J.	Alexo	38	8- 8-45
Carson, James	Edmonton (duplicate) ..	105	6- 3-45
Campbell, Robert G.	Coleman	17	16- 7-45
Coates, Ernest	Bellevue	35	24- 7-45
Devernichuk, Mike	Lethbridge	8	16- 7-45
France, Henry A.	Coleman	2	17- 7-45
Frances, James	Nordegg	24	18- 7-45
Galvon, Joseph J.	Blairmore	21	16- 7-45
Hotte, Leonard	Coleman	8	17- 7-45
Hucik, Louis	Blairmore	15	17- 7-45
Holowatiuk, William	Newcastle	25	18- 7-45
Herman, John R.	Mountain Park	33	25- 7-45
Harpham, Henry A.	Clover Bar	37	27- 7-45
Kubica, Mike P.	Coleman	12	16- 7-45
Keef, James	Mercoal	26	18- 7-45
Livingstone, Robert D.	Lethbridge	39	16-10-45
Mattson, Allie E.	Bellevue	5	16- 7-45
Mottishaw, Walter R.	Bellevue	13	16- 7-45

THIRD CLASS

Name	Address	Cert. No.	Date of Issue
Molnar, Vendel S.	Hillcrest	23	17- 7-45
Morris, John	Bellevue	30	20- 7-45
MacKay, Duncan	Mercoal	7	16- 7-45
Norris, Fred A.	Mountain Park	32	25- 7-45
Ondrik, John F.	Coleman	16	16- 7-45
O'Neill, Henry J.	Nordegg	28	20- 7-45
Runge, William	Rosalind	34	26- 7-45
Rhodes, Harold	Robb	36	1- 8-45
Simla, Joe	Coleman	10	16- 7-45
Shellian, Andry F.	Canmore	11	16- 7-45
Stratton, Robert	Langford Park	22	17- 7-45
Strecker, John	Rosedale	29	20- 7-45
Stocco, Reno	Drumheller	31	23- 7-45
Tait, Burton	Edmonton	1	16- 7-45
Tomsich, John	Mercoal	18	16- 7-45
Tamborini, Bruno	Bellevue	20	16- 7-45
Vasek, Louis M.	Coleman	6	16- 7-45
White, Mike	Wayne	27	20- 7-45

MINE SURVEYOR

Dutton, Joseph A.	Edmonton	3	30- 7-45
Hodson, Thomas H.	Nordegg	1	16- 7-45
Scott, Andrew	Luscar	2	16- 7-45

LIST OF HOLDERS OF FIRST, SECOND AND THIRD CLASS CERTIFICATES, MINE SURVEYORS' AND MINE ELECTRICIANS' CERTIFICATES

Issued by the Government of the Province of Alberta to December 31st, 1945

List of Names of Holders of First Class Certificates

*Addie, W.	Lundbreck	19	25- 8-03
Aspinall, Francis	Vancouver, B.C.	22	1- 3-09
Ashburner, Edward	Lethbridge	40	9-12-10
*Alderson, Fred D.	Hosmer, B.C.	52	27- 9-11
Allen, Peter	Wayne	72	5-11-12
*Brown, J.	Calgary	18	24- 8-03
*Bastian, J.	Taber	43	19- 7-04
Broome, G. H.	New Zealand	46	28-11-04
Bradshaw, G. B.	Nanaimo, B.C.	61	16- 5-05
Baxter, Andrew W.	Calgary	47	22-12-10
Barnes, Arthur W.	Montana	74	7-11-12
*Black, Ernest D.	Nova Scotia	84	29- 7-13
Brydon, Andrew D.	England	4	17- 9-14
*Brownrigg, John H.	Bankhead	21	17- 7-17
Blake, Henry	Blairmore	25	27- 7-17
Brown, Hugh R.	Carbon	26	28- 6-18
Bilson, George H.	Rhodesia	27	28- 6-18
Brown, R. J.	Montana	30	3- 7-18
Brown, Thomas	Edmonton	42	5- 9-19
Blair, John	Wayne	55	24- 7-24
Barclay, William	Drumheller	11	31- 7-36
Burton, John T.	Drumheller	13	8- 8-36
Brusset, John A.	Blairmore	10	1- 8-42
Brown, J. D. B.	Saunders	12	1- 8-42
Brady, John	Canmore	14	20- 7-43
Collins, W. F.	Blairmore	24	31-10-03
*Colville, A.	Edmonton	52	19- 1-05
Coulthard, R. W.	Blairmore	8	19- 3-06
*Cunningham, G. F.	Edmonton	7	10- 1-08
Church, J. A. H.	Nova Scotia	11	23- 1-08
Coulthard, R. W. (duplicate)	Blairmore	24	11-10-09
*Crowder, James	Drumheller	38	24-12-09
*Christianson, Peter	Edmonton	48	21-12-10
Clyne, James M.	Edmonton	69	18- 3-12
*Crowder, Harry	Drumheller	5	18- 9-14
*Callander, Ira C.	Pocahontas	13	12- 8-16
Cranston Michael	Calgary	35	2- 7-19
Coupland, Edward	Cadomin	56	24- 7-24
Crawford, Alexander	Kaydee	61	24- 7-25
Crawford, John	Edmonton	65	26- 7-26
Chavignaud, Louis G.	Coal Valley	71	6- 8-27
Clark, H. Wilton	Drumheller	66	26- 7-27
*Cumberford, James	Drumheller	80	19- 1-31
Congdon, Milton H.	Blairmore	1	17- 7-40
Crawford, Hugh	Lethbridge	5	11- 7-41
Campbell, Thomas	Drumheller	13	14- 7-43
Clyne, James M.	Edmonton	16	13- 7-44
*Drinnan, R. G.	Edmonton	29	30- 1-04

List of Names of Holders of First Class Certificates—Continued

Name	Address	Cert. No.	Date of Issue
*Dickson, G. H.	Edmonton	3	31- 5-06
Dunn, A. C.	Edmonton	18	13- 1-09
*Darbyshire, J.	Bellevue	35	3-12-09
*Davidson, W. A.	Alexo	25	27-11-09
*Davis, David	Edmonton	62	28-11-11
Duggan, William H.	Victoria, B.C.	85	29- 7-13
deHart, Joseph B.	Calgary	86	29- 7-13
Dennis, Fred W.	Brooks	12	28-10-15
*Davidson, David	Bellevue	15	12- 8-16
Donaldson, Chris S.	Lethbridge	20	17- 7-17
Davies, Thomas O.	Calgary	22	17- 7-17
D'Altroy, A. C.	British Columbia	53	17- 8-23
Davidson, J. M.	Lethbridge	75	23- 7-29
Dutton, J. A.	Drumheller	4	25- 7-32
Dalziel, Robert	Edmonton	8	29- 7-33
Donaldson, Adam G.	Shaughnessy	14	23- 8-37
Dunn, Robert A.	Nacmine	15	27- 8-43
*Evans, D.	Michel, B.C.	1	15-10-98
*Evans, D. (duplicate)	Michel, B.C.	14	11-12-02
Elliott, D.	Blairmore	20	13-10-03
Emmerson, C.	Bellevue	49	9- 1-05
Emmerson, J.	Frank	50	14- 4-05
Ellis, William	Champion	15	8- 1-09
Emerson, J.	Canmore	41	25- 8-19
*Finlayson, J.	Bassano	30	10- 2-04
Flint, W. G.	Edmonton	56	13- 4-05
*Fraser, Norman	Edmonton	1	21-12-05
*Fraser, G. L.	Coleman	1	31- 5-06
*Ferguson, C. J.	Edmonton	23	17- 7-17
Foster, William	Wabamun	40	12- 8-19
France, Thomas	Priddis	44	8-10-19
Fraser, William B.	Coleman	1	16- 7-45
Green, R.	Calgary	58	26- 4-05
Graham, C.	Prince Rupert, B.C.	7	27- 2-06
Givin, Homer H.	Virginia, U.S.A.	57	23-11-11
Gray, David, Jr.	Washington, U.S.A.	65	4-12-11
Guernsey, F. W.	Vancouver, B.C.	80	18-12-12
Gotheridge, William T.	Ryley	54	16- 7-24
Gardner, H. H.	Coleman	9	18-12-34
Goodwin, William	Bellevue	12	4- 8-36
*Hardie, W. D. L.	Lethbridge	2	15-10-98
*Hamilton, W. L.	Lethbridge	4	2-12-98
*Hargreaves, James	East Coulee	9	25- 6-01
*Heathcote, Elijah	Coal Creek, B.C.	23	31-10-03
Henrietta, Chas. M.	Byseville, Ohio	26	24-11-03
*Hargreaves, James	East Coulee (duplicate)	48	9- 1-05
*Huntrods, E. S. F.	Taber	3	29-12-05
Hamilton, Robert	Priddis	4	3- 1-07
Horne, Thomas	Victoria, B.C.	6	26-12-07
Horne, Robert	Coleman	12	7- 1-09
*Holden, James	Bankhead	14	7- 1-09
*Harrison, Stephen	Lethbridge	16	11- 1-09
Hart, John	Edmonton	23	23- 3-09
Howells, Nathaniel	Edmonton	64	4-12-11
Hunter, A. B.	Edmonton	14	12- 8-16
Higgins, Alexander	Calgary	19	7- 7-17
Heeley, William G.	Calgary	36	3- 7-19
Hetherington, W. B.	British Columbia	38	9- 7-19
Howden, A. B.	Scotland	50	1- 8-21
Hamilton, Allan	Drumheller	52	17- 8-23
Hall, William E. G.	Lethbridge	58	20- 7-25
Hibbert, W. J.	Edmonton	79	10- 9-30
Hnatyshyn, A. C.	Luscar	6	22- 3-33
Hibbert, W. J.	Edmonton (duplicate)	7	29- 7-33
Horne, James	Cadomin	21	21- 7-39
Hamilton, Duncan C.	Luscar	7	15- 7-41
*John, John	Fernie, B.C.	44	29- 4-04
*Jones, Samuel A.	Nanaimo, B.C.	57	24- 4-05
Jones, David	Edmonton	67	27-11-11
*Johnson, Moses	Blairmore	79	14-11-12
*Jordan, William	Drumheller	11	9- 9-15
*Jones, Griffith	Drumheller	63	21-10-25
Jones, Daniel	Robb	17	13- 7-44
Jones, J. R. B.	Hinton	18	21- 7-38
Kerr, Alex.	Tonkin, B.C.	27	18-12-03
*Keith, Thos.	Taber	20	29- 1-09
Knox, Thos. K.	Coal Creek, B.C.	28	30-11-09
*Kellock, George	Coleman	59	23-11-11
Kinsman, Alexander	Hosmer, B.C.	70	11- 5-12
Kellock, James	Coleman	76	8- 8-30
Little, John	Coalfields	5	2-12-98
*Livingstone, Robert	Lethbridge	16	
Lewellyn, D. R.	Michel, B.C.	42	2- 7-04
Little, W. F.	Canmore	4	29-12-05
*Lee, Robert J.	Estevan, Sask.	56	23-11-11

List of Names of Holders of First Class Certificates—Continued

Name	Address	Cert. No.	Date of Issue
*Leblanc, Emile	Wayne	6	18- 9-14
Lindoe, Luke	Coleman	77	8- 8-30
Lister, Arthur L.	Cadomin	3	18- 7-45
*Morris, Jas. J.	Canmore	3	3-11-98
*Morris, Cyrus	Frank	12	13- 2-02
Mills, Thomas	Nanaimo, B.C.	35	2- 5-04
Manlev, Henry L.	Fernie, B.C.	41	3- 6-04
*Morton, T. R.	Michel, B.C.	63	21- 7-05
*Marsh, John	Taber	6	1- 2-06
Moore, Samuel M.	Bankhead	26	27-11-09
Maxwell Wm.	Pincher Creek	27	29-11-09
Millar, Andrew A.	Edmonton	54	23-11-11
Musgrove, William	Canmore	76	11-11-12
Marshall, John W.	Donalda	78	13-11-12
Mather, Thomas	Edmonton	81	20- 7-13
Milne, Morgan C.	Pocahontas	83	24- 7-13
Morgan, Owen	Saunders	51	17- 8-23
Morrison, Edward	Fernie, B.C.	62	28- 9-25
Morris, William	Foothills	1	26- 7-31
Millar, David	Robb	2	25- 8-31
Morgan, Evan H.	Blairmore	3	27- 9-31
Morgan, Thomas E.	Hillcrest	15	26- 8-37
Melnik, Nick	Cadomin	4	11- 7-41
Muir, Alexander	Edson	6	11- 7-41
Miller, Henry	Rosedale	8	25- 7-41
Mrokwia, Victor, Jr.	Canmore	18	15- 7-44
Morgan, Owen	Saunders (duplicate)	19	4- 5-45
Melson, Philip	East Coulee	2	16- 7-45
McEvoy, James	Fernie, B.C.	17	1- 8-03
*McVicar, Samuel	Frank	59	26- 4-05
McLean Donald	Ladysmith, B.C.	62	22- 5-05
*McMillan, J. H.	Lethbridge	17	12- 1-09
*McDonald, John R.	Edmonton	29	30-11-09
McLenhan, J. A.	Edmonton	39	13- 1-10
*Macaulay, Donald A.	Drumheller	42	9-12-10
McCullouch, James	Corbin, B.C.	41	17-12-10
McDonald, Duncan	Drumheller	60	23-11-11
*McKelvie, James	Nordegg	7	26-10-14
Macaulay, Angus G.	Drumheller	9	16- 8-15
McDonald, H. S.	Bellevue	17	7- 7-17
McLeod, John A.	Cadomin	18	7- 7-17
*McDonald, Noble M.	Vancouver, B.C.	33	9- 7-18
McIntyre, John J.	Coleman	39	25- 7-19
McGuckie, Thomas M.	Wayne	43	1-10-19
McLean, Michael D.	Michel, B.C.	68	30- 8-26
MacKinnon, Hugh G.	Drumheller	20	20- 7-39
McDonald, Leslie B.	Coleman	23	28- 7-39
McMullen, Arthur	Nordegg	3	6-11-40
McAndrew John M.	Calgary	11	1- 8-42
Nugent, Bernard	Edmonton	57	1- 8-24
O'Donnell, Thomas	Rosedale	61	28-11-11
Pearson, Robinson	Fernie, B.C.	11	19-11-01
*Parker, John L.	North Star	25	13-11-03
Pearson, R. N.	Frank	38	10- 5-04
Powell, John W.	Coleman	60	10- 5-05
Pitcher, Norman C.	Edmonton	75	11-11-12
Pickles, William	Edmonton	77	11-11-12
*Pavier, Evan L.	Edmonton	24	24- 7-17
*Puckett, Owen L.	Drumheller	29	3- 7-18
Pascoe, Thomas	Edmonton	78	8- 8-30
Potter, Idwal N.	Drumheller	22	25- 7-39
*Quigley, Jas. S.	Hillcrest	21	1- 2-09
Quigley, D. H.	Coalhurst	28	28- 6-18
*Reynolds, E. E.	Lethbridge	33	5- 4-04
Richards, James A.	Drumheller	39	17- 5-04
*Russell, Thomas	Victoria	45	28-10-04
Raisbeck, Luke	Aerial	47	28-11-04
*Reed, Thomas	Northfield, B.C.	5	
Robertson, John	Drumheller	2	22-12-05
*Robertson, John	Lundbreck	9	18- 1-08
*Richards, Clifton C.	Calgary	36	13-12-09
Russell, John	Round Hill	44	22-12-10
Reid, John C.	Oklahoma, U.S.A.	53	4-12-11
*Roberts, Edward I.	Edmonton	55	18-11-11
Reid, Adam H.	Oklahoma, U.S.A.	3	18- 9-14
Russell, James	Lethbridge	8	8-12-14
Robert, Louis P.	Blairmore	10	16- 8-15
Ramsay, P. M.	East Coulee	34	12-11-18
Richards, Russell	Drumheller	60	20- 7-25
Rappell, Thomas	Canmore	17	1- 9-37
*Smith, Frank B.	Edmonton	7	4- 6-01
Stockett, Thos. R., Jr.	Nanaimo	10	19-11-01
Simister, Chas.	Fernie, B.C.	21	13-10-03
Strachan, Robert	Fernie, B.C.	31	10- 2-04
Shepherd, F. H.	Victoria, B.C.	34	2- 5-04

THE MINES BRANCH

List of Names of Holders of First Class Certificates—Continued

Name	Address	Cert. No.	Date of Issue
Symons, C. C.	Coalfields	37	2- 5-04
*Stockett, Lewis	Vancouver, B.C.	51	19- 1-05
*Sharp, Alex.	Edmonton	53	22- 2-05
*Stirling, John T.	Edmonton	8	10- 1-08
Scott, Alex.	Edmonton	5	26-12-07
Sparrow, Edwin	Lundbreck	13	7- 1-09
Scott, A. N.	Luscar	19	25- 1-09
*Shone, Samuel	Coleman	33	2-12-09
Stevens, Leonard C.	Edmonton	31	2-12-09
Saville, Enoch O.	Taber	45	22-12-10
*Shaw, William	Edmonton	46	22-12-10
Stewart, Robert T.	Edmonton	50	12- 1-11
Shanks, John (cancelled)	Nordeg	51	17- 1-11
Stevenson, John	Scotland	68	6-12-11
Stevenson, William	Mercoal	87	29- 7-13
Shanks, David	Nordeg	61	4-11-16
Smith, Thomas E.	Montana	31	3- 7-18
Stevenson, John	Hillcrest	46	26- 7-20
Stewart, James (cancelled)	Nordeg	48	26- 7-20
Scott, Thomas W.	Cadomin	67	17- 8-26
Sandino, J. A.	Drumheller	5	25- 7-32
Smith, Terence	Edmonton	10	1- 8-35
Shaw, Robert	Blairmore	5	1- 8-45
Thorne, B. L.	Calgary	32	2-12-09
*Thain, Harry S.	Lethbridge	34	2-12-09
Thomas, John Ira	Edmonton	49	16- 1-11
Thomas, Willis P.	Diamond City	58	23-11-11
*Thomas, Joseph D.	Passburg	66	4-12-11
*Turner, John T.	Coalhurst	49	1- 8-21
Tennant, Robert	Drumheller	59	20- 7-25
Touhey, James B.	Drumheller	19	27- 7-38
Thomas, David R.	Edmonton	2	12-10-40
Thomson, John	Edmonton	9	17- 7-42
Vivuyurka, John	Wabamun	4	26- 7-45
*Whiteside, O. E. S.	Vancouver, B.C.	6	15-12-98
White, E. Proctor	Lethbridge	8	17- 6-01
*Wyllie, John B.	Frank	13	25-11-02
Waite, Archibald	Taber	15	9- 4-03
*Wilson, David G.	Fernie, B.C.	22	31-10-03
Wilson, Arthur B.	Lethbridge	28	12- 1-04
*Wall, W. O.	Nanaimo, B.C.	32	10- 2-04
*Williams, W. P.	Blairmore	36	2- 5-04
*Wright, H. B.	Fernie, B.C.	40	25- 5-04
*Wilkinson, Geo.	Nanaimo, B.C.	54	27- 3-05
*Weatherby, C.	Coleman	2	31- 5-06
Williams, T. H.	Taber	10	18- 1-08
Watters, John	Banff	30	30-11-09
*Wark, S. D.	Passburg	37	15-12-09
*Willey, Edward	Fernie, B.C.	71	1-11-12
Watson, William	Coleman	73	7-11-12
*Welch, Jas. D.	Nordeg	1	18- 9-14
Williams, Thos. B.	Canmore	2	18- 9-14
Watters, Alexander G.	Bankhead	32	5- 7-18
Watson, Ronald H.	Edmonton	37	3- 7-19
*Wilkinson, Geo.	Nanaimo, B.C. (duplicate)	45	21-11-19
Williams, Arthur E.	Saunders	69	1- 8-27
Wilson, Andrew	Edmonton	70	1- 8-27
Wilson, William	Canmore	72	19- 7-28
Whittaker, W. C.	Coal Valley	74	29- 7-28
Worthington, W. T.	Edmonton	16	26- 8-37
Young, David B.	Bellevue	64	26- 7-26
Yates, Frank	Michel, B.C.	73	29- 7-28

*Deceased.

Certificates issued previous to September 1, 1905, were issued under the provisions of The Coal-mines Regulation Ordinance of the North-West Territories.

List of Names of Holders of Second Class Certificates

*Anderson J.	Bellevue	2	30- 5-06
Aspinall, Francis	Vancouver, B.C.	27	27- 5-08
Allen, Peter	Wayne	72	20-12-11
Allen, William C.	Wayne	22	7- 9-15
Atherton, Edward	Sheerness	49	17- 7-17
Ashurst, William	Coleman	51	17- 7-17
Ashman, Alfred W.	East Coulee	88	3- 7-19
Adlam, William	Hillcrest	107	15- 7-19
Armstrong, John	Nordeg	110	16- 7-19
Adams, Thomas H.	Beverly	127	26- 7-20
*Anderson, Peter B.	Mountain Park	139	26- 7-20
Alexander, William	Bellevue	68	20- 7-38
Aschacker, Martin	Blairmore	17	20- 1-42

List of Names of Holders of Second Class Certificates—Continued

Name	Address	Cert. No.	Date of Issue
Appleby, Wm. S.	Canmore	18	17- 7-42
Ainsworth, John H.	Halkirk	25	24- 7-42
*Bastian, J.	Taber	27	7- 5-04
Bastian, T. W.	Clover Bar	27	8- 4-05
Bowie, J.	Leduc	4	3- 1-07
Bamling J.	Diamond City	44	2-12-09
Brockhouse, I. B.	Milk River	74	20-12-11
Bridge, Edward	Cumberland, B.C.	99	5-11-12
Brown, Alan J.	Coleman	105	7-11-12
Barclay, Andrew	Frank	111	18-11-12
Brown, William	Commerce	126	31- 7-13
Blake, Henry	Blairmore	128	31- 7-13
Brisco, Daniel	Luscar	19	21- 8-15
Bilson, George H.	Rhodesia	2	27- 8-14
*Brownrigg, John H.	Bankhead	21	30- 8-15
Berford, Edward	Commerce	27	12- 8-16
Barclay, William	Drumheller	54	10- 8-17
Bovio, M.	Bellevue	61	5- 7-18
Blair, John	Picture Butte	72	11- 7-18
Breareley, Garnett	Coalhurst	78	23- 7-18
Brown, J. F.	Edmonton	84	28- 6-19
Ball, Benjamin	Michel, B.C.	101	8- 7-19
Badham, Thomas	Coleman	104	15- 7-19
Bainbridge James	Nanaimo, B.C.	112	5- 8-19
Brooks, Burton T.	Drumheller	129	26- 7-20
Brady, John	Luscar	141	26- 7-20
Brown, Thomas	Edmonton	55	17-11-17
Briggs, William A.	Carbon	154	10-10-21
Bradley, Thomas	Bellevue	166	17- 8-23
Baybutt, Thomas	Hillcrest	168	17- 8-23
Blas, Emile	Wayne	169	17- 8-23
Boucher, Charles T.	Wayne	175	16- 7-24
Barrowman, Alexander	Ardley	182	14-11-24
Bainbridge, George E.	Nordegg	183	12-12-24
Birse, Alexander	Coalhurst	185	20- 7-25
Brown, Richard G.	Cadomin	192	30- 7-26
Burton, William H.	Edmonton	194	6- 8-26
Burton, John T.	Edmonton	212	23- 7-29
Barrie, John	Drumheller	8	26- 7-31
Boughton, C. A.	Rosedale	10	25- 7-32
Burton, James	Robb	13	25- 7-32
Burrell Archibald K.	Drumheller	37	26- 7-34
Brown, John D. B.	Mountain Park	55	4-11-36
Barclay, Peter	Rosedale	4	3- 8-40
Bradshaw, Richard	East Coulee	8	12- 7-41
Baldwill, F. W.	Hillcrest	20	17- 7-42
Blake, Raymond	Bellevue	28	12- 8-42
Baich, Victor	Luscar	1	16- 7-45
Chestnut, C.	Vancouver, B.C.	30	18- 4-05
*Corkill, T.	Michel, B.C.	13	
*Crowder, James	Blairmore	10	26-12-07
Clay, E.	Oxville	28	7- 1-09
*Clark, J. C.	Blairmore	49	22-12-09
Clyne, James	Edmonton	53	22- 4-10
Clemenson John	Scotland	58	17-12-10
Cooke, Joseph	Burnis	66	20- 2-11
*Crowder Harry	East Coulee	69	18-12-11
Coupland, George	Bellevue	77	21-12-11
Cranston, Michael	Drumheller	119	29- 7-13
Crawford, Alexander	Edmonton	125	31- 7-13
Campbell, K. S.	Beverly	132	31- 7-13
Coupland Edward	Cadomin	8	18- 9-14
Coutes, George	Lethbridge	20	26- 8-15
Conlin, John	Drumheller	33	22- 8-16
Cox, John C.	Toronto	42	7- 7-17
Clark, Robert	Hardieville	43	7- 7-17
Crabb, Samuel A. B.	Lethbridge	52	17- 7-17
Crawford, John	Edmonton	64	6- 7-18
Crawford, William S.	Lethbridge	66	9- 7-18
Carson, James	Spring Point	82	17-10-18
Cartwright, Charles E.	Blairmore	85	2- 7-19
Clarkstone, W. W.	Fernie, B.C.	93	3- 7-19
Caufield, J.	Coal Creek, B.C.	105	15- 7-19
Carr, Thomas	Cadomin	177	1-10-19
Cole, J. J.	Canmore	126	26- 7-20
Congdon, Milton H.	Blairmore	158	1- 8-22
Campbell, Thomas	Drumheller	174	16- 7-24
Chavignaud, Louis G.	Hinton	195	17- 8-26
Castella, Jens	Standard	35	23- 7-24
Clyne, James M.	Edmonton	42	18- 7-35
Carmichael, Malcolm	Canmore	65	21- 7-38
Crawford, Hugh	Lethbridge	85	12- 8-39
Curry, John	Hillcrest	86	12- 8-39
Campbell, James	Calgary	94	20-12-40
Carson, James	Edmonton (duplicate)	16	25- 9-41

List of Names of Holders of Second Class Certificates—Continued

Name	Address	Cert. No.	Date of Issue
Crabb, Daniel J.	Lethbridge	21	17- 7-42
Cooke, Charles R.	Willow Creek	30	22- 4-43
Camarta, John	Cardiff	50	20- 7-44
Carr, Roy	Cadomin	55	28-11-44
Courterelle, Allan F.	Drumheller	11	20- 8-45
Davis, A.	Lethbridge	4	19-11-98
Duggan, R. G.	Taber	19	26- 4-04
Davies, D.	Coleman	31	18- 4-05
Dunn, J. P.	Edmonton	9	26-12-07
Davies John	Coleman	11	26-12-07
Davies, S.	Coal Creek, B.C.	18	10- 1-08
Dixon, S.	Lille	24	8- 2-08
Davis, John	Lethbridge	31	11- 1-09
*Davies, T.	Frank	54	22- 4-10
*Davidson, David	Alexo	94	1-11-12
Davies, Thomas O.	Pincher Creek	104	7-11-12
Dalziel, Robert	Edmonton	122	31- 7-13
*Digman, John H.	Coalhurst	134	31- 7-13
Dennis, F. W.	England	3	27- 8-14
Dewar, Alexander	Coleman	16	16- 8-15
Donaldson, C. S.	Lethbridge	35	26- 8-16
Duncan, N. S.	Dodds	100	8- 7-19
D'Altroy, A. C.	British Columbia	145	1- 8-21
Dieter, W. J.	Sheerness	167	17- 8-23
Davidson, John M.	Clover Bar	187	1- 8-25
Dutton, Joseph A.	Mountain Park	198	1- 8-27
Davidson, Albert M.	Dodds	202	20-12-27
Davey, George	Rosedale	209	29- 7-28
Deere, G. E.	Foothills	214	23- 7-29
Davies, J. C. H.	Blakeburn, B.C.	219	10- 9-30
Dixon, John O.	High River	220	10- 9-30
Donaldson, Adam	Lethbridge	40	13- 8-34
Douglas, Peters S. Jr.	Cadomin	93	22- 4-40
Dunn, Robert	Willow Creek	6	12- 8-40
Dobson, Roy C.	Lethbridge	27	4- 8-42
Dolanz, Iggie	Heisler	46	18- 8-44
Dropko, Wm.	Drumheller	48	18- 8-44
Emmerson, C.	Bellevue	3	15-11-98
*Eccleston, W.	Michel, B.C.	16	10- 1-08
Evans, Thos. R.	Coleman	137	31- 7-13
Embree, Merton B.	Evansburg	98	3- 7-19
Edwards, John	Cadomin	7	26- 7-31
Evans, Howell	Mountain Park	24	29- 7-33
Elkes, Frederick W.	Drumheller	33	23- 7-34
Edwards, Mark	Edmonton	50	7- 8-36
Edwards, Oliver E.	Cadomin	53	12- 8-36
Esteban, Melchor	Calgary	59	23- 8-37
Evans, Howell	Luscar (duplicate)	77	23- 3-39
Erikson, Gustaf W.	Blairmore	81	25- 7-39
*Fraser, G. L.	Coleman	25	23-12-04
Flint, W. G.	Edmonton	16	
Francis, J.	Taber	29	8- 1-09
Fox, A.	Nevis	42	29-11-09
Foster, W. R.	Taber	51	24- 1-10
Fulton, James K.	Coleman	133	31- 7-13
Foster, William	Robb	14	16- 8-15
Finlay, Samuel	Clover Bar	25	12- 8-16
*Ferguson, C. J.	Edmonton	38	30- 8-16
Fortner, Edward	Tennessee, U.S.A.	57	3- 7-18
France, Thomas	Priddis	67	9- 7-18
Fyvie, J.	Drumheller	109	16- 7-19
Fraser, James	Carbon	133	26- 7-20
Fyfe, Walter H.	Nelson, B.C.	142	26- 7-20
Ford, Allen	Michel, B.C.	146	1- 8-21
Fraser, Alex.	Carmangay	221	10- 9-30
Fawcett Elmer S.	Cardiff	51	7- 8-36
Fox, Alfred A.	Canmore	63	13-11-37
Fridel, Stephen	Edmonton	59	30- 7-38
Fraser, William B.	Coleman	31	14- 7-43
Fox, Benjamin	Carbon	49	22- 7-44
Green, R.	Calgary	17	26- 4-04
Giffen, H. R.	Carbon	14	1905
Gilliland, William	Cardiff	61	17-12-10
Garbitt, Richard	Corbin, B.C.	100	5-11-12
Garrett, John	Blairmore	123	31- 7-13
Givens, John	Wayne	99	8- 7-19
*Gate, Harry	Coleman	124	26- 7-20
Graham, John	Coaldale	157	1- 8-22
Gidman, Joseph H.	Taber	165	29-12-22
Gordon, Thomas	Drumheller	184	27- 5-25
Gilmour, John	Drumheller	222	9- 2-31
Goodwin, Geo. W.	Bellevue	2	26- 7-31
Goodwin, Wm.	Bellevue	9	26- 7-31
Greenhalgh, R. M.	Coleman	11	25- 7-32
Gotheridge, W. V.	Round Hill	43	24- 7-35

List of Names of Holders of Second Class Certificates—Continued

Name	Address	Cert. No.	Date of Issue
Goodwin, Albert E.	Bellevue	72	26- 8-38
Griffiths, Edward	Foothills	1	3- 8-40
Gladwin, Lewis C.	Saunders	22	18- 7-42
Grant, Alexander	Hillcrest	24	22- 7-42
Gallagher, John	Rosedale	49	22- 7-44
Hall, Oliver	Bellevue	26	23-12-04
Harvie, Robert	Lethbridge	1	30- 5-06
Hutchinson, A. M.	Coleman	6	3- 1-07
Horne, Robert	Blairmore	12	26-12-07
Horswell, John	Edmonton	34	1- 2-09
Howells, Nathaniel	Wayne	55	25- 5-10
Hallworth, Albert	Bellevue	65	30- 1-11
Hamilton, Allan	Drumheller	78	21-12-11
Heeley, William G.	Calgary	80	22-12-11
Hill, James	Canmore	84	13- 1-12
Hutton, John	Edmonton	93	1-11-12
Hunter, Henry	Edmonton	102	7-11-12
Hughes, Daniel J.	Diamond City	110	13-11-12
Hartley, William	Bankhead	114	25-11-12
Hamilton, Allan	Drumheller (duplicate)	1	1- 4-14
Hunter, Charles	Beverly	4	18- 9-14
Hunter, Alexander B.	Drumheller	7	18- 9-14
Harries, Henry C.	Coleman	9	18- 9-14
Heathcote, Joseph	England	10	18- 9-14
Hughes, William R.	Barnwell	13	6- 8-15
Halliday, George W.	Nanaimo, B.C.	31	22- 8-16
Hutton, David T.	Bellevue	44	10- 7-17
Hastings, Andrew P.	Champion	62	5- 7-18
*Hulme, Charles	Rocky Mountain House	63	6- 7-18
Hargreaves, G.	Lethbridge	70	9- 7-18
Hutchison, P.	Ardley	102	10- 7-19
Hedges, Richard	Beverly	111	18- 7-19
Higney, John	Coalhurst	130	26- 7-20
Heap, Robert	Coalhurst	137	26- 7-20
Holmes, Robert	Coleman	144	6- 1-21
Hughes, John C.	Madrid	156	15-12-21
Hamilton, Joseph J.	Lethbridge	164	9- 9-22
Hall, James	Coal Creek, B.C.	190	26- 7-27
Hibbert, William J.	Dinant	191	26- 7-27
Harries, John	Wayne	213	23- 7-29
Hamilton, John	Delia	18	10- 8-32
Hulbert, Havelock A.	Coleman	31	23- 7-34
Hamilton, Thomas M.	Blairmore	34	23- 7-34
Hooks, Albert	Drumheller	38	26- 7-34
Heyworth, Ernest S.	Edmonton	45	2- 6-36
Hilliary, Joseph	Bellevue	49	7- 8-36
Hill, Ernest	Coleman	57	23- 8-27
Holliday, Thos.	Drumheller	71	17- 8-38
Henry, Wm. B.	Newcastle	76	9-11-38
Heidel, Herbert G.	Priddis	26	1- 8-41
Horkulak, A. H.	Edmonton	39	14- 7-44
Henderson, A. J.	Luscar	7	20- 7-45
Ironmonger, John	Hillcrest	60	5- 7-18
Jones, Samuel A.	Nanaimo, B.C.	18	26- 4-04
*Johnson, Moses	Blairmore	46	3-12-09
Jones, David	Edmonton	48	15-12-09
Jones, Peter	Drumheller	92	1-11-12
*Jordan, William	East Coulee	112	20-11-12
*James, William	Pocahontas	5	18- 9-14
Jackson, James	Bellevue	56	3- 7-18
Joberg, A. F.	Delia	68	9- 7-18
*Jones, C. E. R.	Cardiff	83	12-11-18
Jones, D.	Coalhurst	116	5- 9-19
Jones, Daniel	Edmonton	178	24- 7-24
*Jones, Ilttyd	Edmonton	197	1- 8-27
Jones, Elias	Coleman	16	25- 7-12
Johnstone, Alexander	Edmonton	7	11- 7-41
James, John C.	Saunders	35	20- 7-43
Jones, William	Rosedale	10	30- 7-45
Kerr, John	Lethbridge	33	6- 7-05
*Kellock, George	Coleman	39	27-11-09
Kellock, James	Coleman	82	30-12-11
Keith, John D.	Coalhurst	107	11-11-12
Kaye, Hershel	Pocahontas	129	31- 7-13
Kerr, W. R.	Carbon	115	2- 9-19
Kennedy, Joseph	Willow Creek	47	31- 7-36
Kubin, John J.	Coleman	32	14- 7-43
Kennedy, William	Coleman	4	17- 7-45
Livingstone, J. C.	Lethbridge	5	19-11-98
*Livingstone, Robert	Lethbridge	6	5- 6-99
Lowrie, Ralph	Frank	34	6- 7-05
*Lee, Robert J.	Estevan, Sask.	56	17-12-10
Luck, George	Bellevue	70	19-12-11
Letcher, William M.	Bankhead	96	1-11-12
Leblanc, Emile	Taber	127	31- 7-13

List of Names of Holders of Second Class Certificates—Continued

Name	Address	Cert. No.	Date of Issue
Littler, Robert	Bankhead	6	18- 9-14
Lundy, James	Drumheller	53	17- 7-17
Larrair, Charles F.	Drumheller	74	12- 7-18
Lindoe, Luke	Coleman	170	1- 9-23
Littler, James	Michel, B.C.	200	12- 8-27
Lavis, George	Drumheller	218	10- 9-30
Lloyd, James H.	Blairmore	12	25- 7-41
Lister, Arthur A.	Cadomin	14	25- 7-41
Lamond, David	Evansburg	36	20- 7-43
Looten, Henry	Newcastle	42	14- 7-44
*Musgrove, John	Canmore	2	15-11-98
*Musgrove, John	Canmore (duplicate)	9	25- 4-01
Musgrove, William	Canmore	32	6- 7-05
Miller, John K.	Drumheller	29	8- 4-05
Morris, John	Lundbreck	8	3- 1-07
Morgan, Daniel	Edmonton	17	10- 1-08
Moore, Thomas E.	Drumheller	47	11-12-09
Miard, Harry K.	Coal Creek, B.C.	64	16- 1-11
Munro, William K.	Blairmore	76	21-12-11
Murphy, Peter J.	Drumheller	91	24- 8-12
Mather, Thomas	Luscar	106	11-11-12
Muir, David	Edmonton	108	11-11-12
Massey, Harry	Corbin, B.C.	116	25-11-12
Morgan, Owen	Saunders	121	29- 7-13
Mason, Samuel	Blairmore	130	31- 7-13
Mather, John	Edmonton	23	13- 9-15
Miller, Walter	Beverly	26	12- 8-16
Melling, Peter	Coalhurst	28	12- 8-16
Murray, J.	Coalhurst	90	3- 7-19
Mossey, Thomas	Lethbridge	95	3- 7-19
Makin, J. W.	Hillcrest	103	15- 7-19
Marsh, E.	Wayne	113	25- 8-19
*Martin, R.	Taber	114	25- 8-19
Miller, John H.	Midlandvale	131	26- 7-20
Mackie, John	Bankhead	136	26- 7-20
March, John H.	Midlandvale	153	1- 8-21
Meyers, August	Drumheller	172	18-12-23
Mossey, Robert	Frank	173	16- 7-24
*Martin, Henry Sr.	Saunders West	203	29- 2-28
Miller, David	Mercoal	204	19- 7-28
Miller, John K.	Drumheller (duplicate)	210	24-11-28
Morgan, Evan H.	Edmonton	215	23- 7-29
Marsh, Walter	Delburne	20	21- 9-32
Maievich, John (May)	Edmonton	26	29- 7-33
Morgan, Thos. E.	Hillcrest	27	22- 8-33
Moran, James	Edmonton	46	28- 7-36
Mayoh, Daniel	East Coulee	48	7- 8-36
Musgrove, Harry B.	Canmore	60	23- 8-37
Muir, Alexander	Alexo	67	27- 8-38
Miller, Henry	Burmis	75	13-10-38
Melling, Joseph	Lethbridge	82	25- 7-39
Mills, Basil	Shaughnessy	84	12- 8-39
Mrokwia, Victor Jr.	Canmore	2	3- 8-40
Mather, Richard	Edmonton	29	10- 8-42
Morrison, Neil A. P.	East Coulee	37	20- 7-43
Mather, John H.	Namao	38	9- 9-43
Menzies, Wm.	Drumheller	40	14- 7-44
Melson, Phillip	East Coulee	45	15- 7-44
Mather, Stanley	East Coulee	8	23- 7-45
*McVicar, Samuel	Frank	23	23-12-04
McKean, John W.	Lethbridge	24	23-12-04
McGregor, Alex.	Cardiff	1	20-12-05
*McKay, Donald	Bankhead	3	30- 5-06
McLenhan, John A.	Edmonton	33	1- 2-09
*McKelvie, Jas.	Hosmer, B.C.	43	29-11-09
McDonald, Duncan	Drumheller	60	17-12-10
McMillan, Donald	Pincher Creek	71	20-12-11
MacDonald, James A.	Bellevue	79	21-12-11
MacKay, Angus	Nova Scotia	81	26-12-11
McIntyre, John J.	Coleman	88	2- 3-12
McDonald, J. O. C.	Coleman	15	16- 8-15
McDonald, Hector S.	Coleman	17	16- 8-15
*McDonald, Noble M.	Bellevue	18	16- 8-15
McLellan, John A.	Mercoal	24	2-11-15
McPegan, William	South Wellington, B.C.	34	22- 8-16
McIntyre, John J.	Bellevue (duplicate)	41	9-12-16
McDonald, J. H.	Nanaimo, B.C.	48	10- 7-17
McQueen, Andrew	Edmonton	71	9- 7-18
McKinnon, H. G.	Canmore	76	13- 7-18
MacAskill, Donald	Drumheller	77	16- 7-18
McKinnon, John L.	Coleman	80	26- 7-18
McLean, Michael D.	Michel, B.C.	122	26- 7-20
McCullough, Alex.	Coleman	143	10- 8-20
McLeod, Alexander	Drumheller	149	1- 8-21
McDonald, William	Drumheller	155	10-10-21

List of Names of Holders of Second Class Certificates—Continued

Name	Address	Cert. No.	Date of Issue
McKenna, Peter	Cadomin	161	1- 8-22
McGaw, Albert M. S.	Carmangay	171	15- 9-23
MacDonald, L. M.	Bellevue	217	10- 9-30
McDonald, Clyde P.	Bellevue	1	26- 7-31
McGregor, Thos. B.	Lethbridge	19	10- 8-32
McGowan, John M.	Newcastle	36	26- 7-34
McCutcheon, J. A.	Midlandvale	58	19- 8-37
McAndrew, J. M.	Calgary	64	19- 7-38
McMullen, Arthur	Nordegg	66	21- 7-38
McDonald, William I.	Willow Creek	9	12- 7-41
McDonald, Thomas	Rosedale	41	14- 7-44
McLafferty, D.	Hillcrest	53	18- 8-44
McQueen, Alexander	Mercoal	2	16- 7-45
*Nicol, James	Frank	36	10- 2-09
Nanson, Thomas H.	Bellevue	40	25- 9-16
Nicol, George	Drumheller	46	10- 7-17
Nugent, Bernard	Camrose	73	11- 7-18
Novak, Mike	Milk River	32	23- 7-34
Ostheidt, Gus	Cardiff	1	14-11-98
Oliphant, Joseph H.	Carbon	59	17-12-10
Oliphant, John T.	Medicine Hat	153	1- 8-21
Ostler, James	Taber	160	1- 8-22
Ottewell, William J.	Clover Bar	176	16- 7-24
Ottewell, Cedric P.	Clover Bar	193	6- 8-26
Oakes, Robert	Blairmore	17	25- 7-32
*Phillips, Chas.	Frank	20	26- 4-04
Pearson, W. G.	Frank	15	26- 4-04
Parsons, T. Lloyd	Edmonton	26	21- 3-08
Pickles, William	Edmonton	35	1- 2-09
Prentice, John	Virginia, U.S.A.	45	2-12-09
Park, Stewart G.	Lethbridge	57	17-12-10
Parker, Levi	Cardiff	68	28- 4-11
Powell, Albert E.	Lundbreck	85	16- 1-12
Parry, Thomas	Coleman	109	12-11-12
Picton, Daniel	Aerial	118	10- 2-13
Penman, John S.	Rosenroll	120	29- 7-13
*Pavie, Evan L.	Edmonton	37	30- 8-16
Puckett, Owen L.	Robb	50	17- 7-17
Park, William	Bellevue	65	6- 7-18
Pembleton, Geo. W.	Edmonton	97	3- 7-19
Peacock, Charles	Coalhurst	138	26- 7-20
Prendergast, Denis	Nova Scotia	188	26- 7-26
Pettigrew, Robert	Corbin, B.C.	30	27- 4-34
Potter, I. N.	Nacmine	44	15- 8-35
Parker, Jack	Cardiff	52	6- 8-36
Price, Stanley R.	Blairmore	79	25- 7-39
Peta, Julius	Hardieville	90	23-10-39
Park, Angus	Edmonton	15	28- 7-41
Quigley, Daniel H.	Drumheller	73	20-12-11
Queen, Andrew M.	Lethbridge	124	31- 7-13
Quin, James	East Coulee	23	29- 7-33
Rice, Awrey	Edmonton	2	20-12-05
Roberts, D. E.	Coleman	14	10- 1-08
Rankin, George	Michel, B.C.	41	29-11-09
*Roberts, E. I.	Edmonton	52	12- 3-10
Ramsey, Peter M.	East Coulee	86	24- 2-12
*Roberts, E.	Rosedale	87	2- 3-12
Richards, Samuel	Bellevue	98	5-11-12
Roberts, John	Cadomin	12	26-10-14
Russell, John	Alix	29	12- 8-16
Robinson, William	British Columbia	30	22- 8-16
Rawlinson, R.	Cadomin	32	22- 8-16
Richards, Evan	Edmonton	59	3- 7-18
Roberts, G.	Lethbridge	79	23- 7-18
Roberts, D. O.	Cardiff	86	2- 7-19
Reed, Edward	Drumheller	135	26- 7-20
*Radford, James	Bellevue	140	26- 7-20
Redpath, James	Wayne	147	1- 8-21
Ruffell, Alfred	Lethbridge	180	11- 8-24
Rees, Daniel	Blairmore	189	26- 7-26
Rappel, Thomas	Canmore	206	19- 7-28
Rolfe, E.	British Columbia	211	4- 2-29
Robertson, Duncan	Drumheller	29	10- 3-34
Rear, Albert E.	Coleman	56	15-12-36
Rochester, Jasper J.	Hinton	78	20- 7-39
Riordan, Leo	Canmore	19	17- 7-42
Raisbeck, R. M.	Drumheller	47	18- 7-44
Reed, John C.	Edmonton	3	16- 7-45
*Scott, Hugh	Lethbridge	7	9- 3-00
Steele, Thomas	Coleman	12	26- 4-04
Sequin, Joseph A.	Estevan, Sask.	22	16- 4-04
Sparrow, Edwin	Tawatinaw	7	3- 1-07
*Shone, Samuel	Coleman	23	23- 1-08
*Shaw, William	Edmonton	21	18- 1-08
Scott, Andrew N.	Luscar	19	10- 1-08

List of Names of Holders of Second Class Certificates—Continued

Name	Address	Cert. No.	Date of Issue
Stewart, J. M.	Nordegg	50	24-12-09
Sihvon, William	East Coulee	40	29-11-09
Sloan, Thomas W.	Burmis	67	2- 3-11
Shaw, Thomas J.	Hinton	75	21-12-11
Strickland, Thomas	Three Hills	101	5-11-12
Scott, Alexander	Pocahontas	103	7-11-12
Schmidt, Otto P.	Camrose	115	25-11-12
Shanks, David	Nordegg	117	7-12-12
Stephenson, Joseph	Bellevue	135	31- 7-13
Stephenson, Thomas	Bellevue	136	31- 7-13
Smith, Thomas E.	Montana, U.S.A.	39	14- 9-16
Simpson, William G.	British Columbia	45	10- 7-17
Stevenson, John	Glasgow, Scotland	47	10- 7-17
Sinclair, James	Drumheller	81	7- 8-18
Sandino, J. A.	Drumheller	91	3- 7-19
Stratton, J. M.	Redcliff	94	3- 7-19
Saunt, James	Drumheller	123	26- 7-20
Steele, Francis M.	Pincher Creek	125	26- 7-20
*Scott, Frederick G.	Brule	128	26- 7-20
Scarpino, F.	Waync	121	26- 7-20
Shaw, William G.	Kimberley	177	24- 7-24
Shaw, Joseph H.	Kimberley	196	22- 9-26
Smith, Terrence	Beverly	205	19- 7-28
Swan, John	Edmonton	12	25- 7-32
Strang, David	Mountain Park	15	25- 7-32
Sutherland, S. R.	Bellevue	28	22- 8-33
Smith, Peter	Coleman	39	13- 8-34
Strickland, Thos.	Three Hills (duplicate)	54	16-10-36
Samis, Earl L.	Nainao	62	30- 9-37
Shaw, Robert	Coleman	70	2- 8-38
Sinoski, Steve	Edmonton South	80	25- 7-39
Sarsfield, Wm.	East Coulee	83	28- 7-39
Simmons, Harry	Mountain Park	89	14- 9-39
Scarpino, Eugene M.	Rosedale	5	4- 9-40
Strickland, William	East Coulee	11	14- 7-41
Stevenson, Robert	East Coulee	13	25- 7-14
Shearer, John C.	Hillcrest	33	20- 7-43
Smillie, Walter	Drinnan	44	14- 7-44
Surrendi, Nick	Wayne	6	18- 7-45
*Thomas, David	Bankhead	28	8- 4-05
*Teppo, Herman	Bellevue	15	10- 1-08
Thomas, John	Diamond City	30	8- 1-09
Thain, Harry S.	Lethbridge	32	12- 1-09
*Thomas, Jos. D.	Drumheller	37	25-11-09
*Taylor, Thomas	Hillcrest	62	22-12-10
Taylor, Geo. Warren	Lethbridge	83	30-12-11
Thomas, John	Frank	89	25- 3-12
Tonge, Thomas	Lundbreck	90	1- 6-12
Thompson, Joseph	Coleman	97	1-11-12
Thomas, Isaac	Coleman	131	31- 7-13
Tennant, Robert	East Coulee	58	3- 7-18
Tully, Thomas	Fernie, B.C.	75	12- 7-18
Thompson, T.	Coleman	87	2- 7-19
*Turner, J. H.	Coalhurst	89	2- 7-19
Taylor, C. M.	Edmonton	118	1-10-19
Thomason, C.	Blairmore	119	12-11-19
Thomas, Isaac	Coleman (duplicate)	120	2- 1-20
Turner, Leonard	Nordegg	132	26- 7-20
Thomson, Andrew R.	East Coulee	159	1- 8-22
Thomson, George G.	Lethbridge	163	9- 9-22
Turner, Leonard	Nordegg (duplicate)	179	11- 8-24
Talbot, W. J.	Edmonton	207	29- 7-28
Thackray, Fred	Lethbridge	208	29- 7-28
Thomson, John	Edmonton	4	26- 7-31
Thomson, James	Nainao	6	27- 7-31
Touhey, J. B.	Drumheller	22	6- 5-33
Tyrer, Edward	Shaughnessy	61	27- 8-37
Thomas, David R.	Edmonton	73	3- 9-38
Tyrer, Harold	Lethbridge	87	12- 8-39
Trevethin, Mark	Wayne	3	3- 8-40
Thompson, Joseph	Carbon	91	9- 1-40
Tiberg, A. J.	Blairmore	34	20- 7-43
Thomas, Wm. J.	Luscar	51	24- 7-44
Tonge, Reginald	Blairmore	54	5-10-44
Tiberghien, A. J.	Coleman	9	24- 7-45
*Unsworth, Robert	Hanna	36	30- 8-16
Utley, F. W.	Bellevue	108	16- 7-19
Villard, Henry	Wabamun	181	11- 8-24
Vivuyurka, John	Mercoal	21	28- 9-32
Williams, Thomas H.	Vancouver, B.C.	8	20- 7-00
Waite, Archibald	Taber	10	26- 4-04
*Weatherby, Cory	Hillcrest	11	6-11-02
Wilson, William G.	Tacoma, Wash.	3	20-12-05
Whitelaw, Thomas	Lethbridge	25	24- 2-08
Watters, John	Banff	22	18- 1-08

List of Names of Holders of Second Class Certificates—Continued

Name	Address	Cert. No.	Date of Issue
Watkins, W. E.	Champion	20	18- 1-08
*Watson, William	Big Valley	13	26-12-07
*Wright, J. S.	Canmore	38	27-11-09
Winter Archibald	Edmonton	63	16- 1-11
Watters, A. G.	Pocahontas	95	1-11-12
*Welch, James D.	Taber	113	20-11-12
Williams, John J.	Edmonton	11	18- 9-14
Worthington, Thomas	Lethbridge	69	9- 7-18
Worthington, W. T.	Edmonton	92	3- 7-19
Williams, W. E.	Edmonton	96	3- 7-19
Watkins, J. M.	Taber	106	15- 7-19
Williams, Albert	Edmonton	134	26- 7-20
Willetts, Frederick	Hillcrest	148	1- 8-21
Wilson, Robinson	Drumheller	151	1- 8-21
Williams, Arthur E.	Saunders	162	1- 8-22
Williamson, David S.	Camrose	199	5- 8-27
Westcott, Henry M.	Wayne	201	10- 9-27
Whitehead, J. W.	Blairmore	216	5- 9-29
Wheatley, F. M.	Banff	3	26- 7-31
Wiltse, Donald H.	Edmonton	5	26- 7-31
Womersley, Alfred	Blairmore	25	29- 7-33
Webster James S.	Shaughnessy	88	17- 8-39
Welsh Edwin L.	Lethbridge	10	12- 7-41
White, James B.	Nordegg	12	25- 8-45
Yard, George C.	Nordegg	150	1- 8-21
Young, D. B.	Bellevue	186	24- 7-25
Young, Charles	Bellevue	23	22- 7-42
Young, John	Drumheller	52	26- 7-44
Yard, Lloyd G.	Trochu	5	17- 7-45

*Deceased.

List of Names of Holders of Third Class Certificates

*Anderson, J.	Frank	13	
*Alderson, R. D.	Coleman	17	3- 1-07
Aspinall, Francis	Drumheller	32	30- 5-07
Ashurst, W.	Coleman	82	26- 8-09
Adlam, William	Hillcrest	108	2- 6-10
Archer, Roland	Hillcrest	132	22-12-10
Allen, William C.	Wayne	205	10- 8-12
Archibald, David	Bickerdike	222	25-11-12
Allan, Alexander M.	Hosmer, B.C.	247	31- 7-13
Adams, Thomas H.	Beverly	16	10- 3-14
Anderson, Andrew	Bellevue	39	17- 6-14
Atherton, Edward	Sheerness	40	14- 7-14
Appleton, John T.	Mountain Park	76	19- 4-15
Ashton, William	Hinton	90	27- 8-15
Anderson Hugh W.	Edmonton	150	7- 7-17
Ashman, Alfred	East Coulee	151	7- 7-17
Armstrong, John	Castor	171	17- 7-17
Armstrong, Peter M.	Nordegg	224	8- 6-18
Arbuckle, John	Mountain Park	263	26- 6-19
*Anderson, Peter B.	Mountain Park	264	26- 6-19
Allen, Edgar	Wayne	436	29- 8-21
Antrobus, Fred	Coleman	461	31- 7-22
Ambrossi, Antonio	British Columbia	478	1- 8-22
*Astley, David	Luscar	483	1- 8-22
Anderson, Robert	Drumheller	638	17- 8-26
Anderson, Gunner W.	Evansburg	650	1- 8-27
Aitken, William	Mountain Park	668	24- 3-28
Allanby, Chas. H.	Foothills	679	19- 7-28
Armstrong, Alex.	Drumheller	697	16- 8-28
Armstrong, John	Castor	719	7- 6-29
Allen, Thos. G.	Blairmore	765	4- 6-30
Alexander, Wm.	Bellevue	8	26- 7-31
Annon Joseph L.	Winnifred	65	25- 6-32
Ashmore, Jas. Jr.	Champion	108	15- 6-33
Appleby, Wm. S.	Canmore	117	6- 7-23
Adamson, Robert	Huxley	157	12- 6-34
Augustin, Ernest C.	Grande Prairie	164	19- 6-34
Aitchison, Peter	Lethbridge	230	22- 6-36
Adamson, Alexander	Perbeck	231	22- 6-36
Atkinson, Chas. W.	Drumheller	249	3- 6-37
Anderson, Robert	Drumheller	258	23- 6-37
Anderson, Arne	Elnora	313	4- 7-38
Allen, Walter F.	Wayne	315	4- 7-38
Allan, William H.	Drumheller	347	8- 6-39
Andrew, Alfred	Edmonton	355	8- 6-39
Aschacker, Martin	Blairmore	1	3- 8-40
Allen, William H.	Drumheller(duplicate)	409	14- 9-40
Ainsworth, John H.	Halkirk	29	25- 7-41
Anderson, Robert	Drumheller	37	20- 4-42

List of Names of Holders of Third Class Certificates—Continued

Name	Address	Cert. No.	Date of Issue
Annon, Joseph L.	Bow Island (duplicate)	69	3-11-43
Aitken, James R. S.	Nordegg	98	9- 8-44
Bastian, T. W.	Clover Bar	30	5-12-04
Barber, J.	Bankhead	7	3- 1-07
Bansemmer, R.	Bankhead	14	3- 1-07
Blake, P.	Lundbreck	23	14- 5-07
Brown, T.	Edmonton	24	14- 5-07
*Brownrigg, John H.	Frank	35	26-12-07
Burrows, C.	Frank	40	18- 1-08
Boulton, W. E.	Drumheller	48	29- 5-08
*Brovey, A. C.	Edmonton	64	1- 2-09
Besso, A.	Canmore	80	26- 7-09
Barnes, B. J.	Coal Creek, B.C.	92	29-11-09
Brisco, Daniel	Luscar	117	9- 6-10
Blake, Henry	Bellevue	133	30-12-10
Bradley, Thomas	Bellevue	138	16- 1-11
Barber, James S.	Hillcrest	144	3- 7-11
Bovio, Michael	Bellevue	146	3- 7-11
Brown, Alan J.	Coleman	163	17-11-11
Berford Edward	Elcan	196	13- 7-12
Blakemore, Royden E.	Edmonton	227	16-12-12
Bainbridge, James	Nanaimo, B.C.	235	31- 7-13
Baird, John	Blairmore	243	31- 7-13
Beal, George F.	Bellevue	7	20-12-13
Byron, John	Coalhurst	11	10- 3-14
Brearley, Garnet	Turin	18	16- 3-14
Barclay, William	Drumheller	22	13- 3-14
Brown, John F.	Pocahontas	29	21- 4-14
Barclay, W. G.	Pocahontas	30	23- 4-14
Byers, John W.	Taber	48	25-11-14
Billington, Edward E.	England	73	25- 2-15
Booth, George	Beverly	85	18- 8-15
Boldon, James	Bellevue	86	19- 8-15
Bell, William	Coleman	95	12-10-15
Brown, Robert	Bellevue	112	10- 7-16
Bateman, Fred	Sheerness	123	14- 7-16
Barnes, Edward	Mountain Park	137	25- 9-16
Badham, Thomas	Drumheller	153	7- 7-17
Beveridge, Andrew	Lucky Strike	156	7- 7-17
Brown, David M.	Commerce	157	7- 7-17
Brooks, Burton T.	Drumheller	167	17- 7-17
Bartlett, Wallace	Elcan	173	17- 7-17
Bennett, Isaac	Armada	179	17- 7-17
Blair, John	Wayne	183	25- 7-17
Bobrovicki, Martin	Drumheller	217	5- 6-18
Baird, William	Drumheller	218	5- 6-18
Brooks, Claude E.	Drumheller	220	8- 6-18
*Blusson Joseph T. C.	Champion	253	26- 6-19
Briggs, Alfred J.	Carbon	254	26- 6-19
Brennan, John	Long Coulee	261	26- 6-19
Brown, Frank	Coal Creek, B.C.	262	26- 6-19
Birse, Alexander	Coalhurst	268	26- 6-19
Bateman, James	Lethbridge	279	26- 6-19
Bealle, Fred A.	Brule	285	26- 6-19
Ball, Alfred	Natal, B.C.	292	20-11-19
Bland, H. A.	Taber	296	3- 2-20
Briggs, Charles	Canmore	302	26- 7-20
Babino, Arthur	Bankhead	312	26- 7-20
Barclay, R. W.	Drumheller	313	26- 7-20
Beveridge, Andrew	Coleman	314	26- 7-20
Bainbridge, G. E.	Nordegg	343	26- 7-20
Bambrough, George	Hillcrest	345	26- 7-20
Burcey, A.	Calgary	352	26- 7-20
Bird, Richard	Nordegg	357	26- 7-20
Barringham, F. J.	Rosedale	362	26- 7-20
Baxter Robert	Canmore	374	17- 6-21
Brown, Thomas W.	Edmonton	377	1- 8-21
Battee, Noyes S.	Drumheller	381	1- 8-21
Blas, Emile	Bellevue	382	1- 8-21
Blake, Sylvanus R.	Wayne	384	1- 8-21
Barnes, Thomas	Blairmore	387	1- 8-21
Boyd, John	Wayne	390	1- 8-21
Barrie, James	Commerce	401	1- 8-21
Briggs, William A.	Carbon	414	1- 8-21
Bedwell, Alfred E.	Lethbridge	415	1- 8-21
Brooks, John	Bellevue	428	1- 8-21
Brown, George A.	Michel, B.C.	432	29- 8-21
Burton, John T.	Edmonton	448	21- 7-22
Birt, William C.	Evansburg	452	31- 7-22
Barnes, Ernest	Coleman	453	31- 7-22
Baker, Robert W.	Coleman	456	31- 7-22
Bradley, Walter	Cardiff	490	1- 9-22
Brooks, George W.	Edmonton	499	1-11-22
Brown, Austin L.	Edmonton	510	30- 5-23
*Barnes, John W.	Coleman	512	30- 6-23

List of Names of Holders of Third Class Certificates—Continued

Name	Address	Cert. No.	Date of Issue
Boscariol, J.	Mountain Park	521	17- 8-23
Brewer, Thomas W.	Drumheller	529	17- 8-23
Bonner, Fred	Evansburg	542	1- 9-23
Barrowman, Alexander	Nordegg	548	15- 9-23
Burton, William H.	Entwistle	553	1-11-23
Brown, Clarence H.	Drumheller	554	15-11-23
Boutry, A.	Bellevue	557	4-12-23
Burnham, George	Fallis	560	18-12-23
Brown, Richard G.	Cadomin	589	20- 7-25
Burrell John	Coleman	607	25- 7-25
Burrows, James G.	Bellevue	617	14-10-25
Balkwill, Frederick W.	Hillcrest	631	30- 7-26
Booth, Harry	Beverly	654	12- 8-27
Burton, James	Robb	670	19- 7-28
Brown, William	Canmore	676	19- 7-28
Bradshaw, James	Scapa	690	16- 8-28
Bailey, Leonard H.	Coalhurst	699	16- 8-28
Broderick, Frederick	Drumheller	702	24-10-28
Bevan, Walter	Canmore	721	7- 6-29
Boughton, C. A.	Rosedale	755	12-11-29
Boseley, Joseph H.	Bellevue	780	10- 6-30
Barber, William J.	Drumheller	781	10- 6-30
Blas, Victor	Blairmore	787	14- 6-30
Burrell, Archie K.	Drumheller	793	3- 7-30
Bell, William	Canmore	798	8- 8-30
Birrell, William	Robb	1	29- 1-31
Barrass, Thomas	Wayne	40	27- 7-31
Baker R. D.	Luscar	41	27- 7-31
Barons, James	Drumheller	48	3- 8-31
Brown, Frederick	Edmonton	58	2- 6-32
Blades, James	Delburne	62	25- 6-32
Bonetti, D.	Champion	73	25- 6-32
Barclay, Daniel	Sundre	89	23- 9-32
Blas, Emil	Blairmore	91	22-10-32
Booth, Joseph	Drumheller	98	10- 6-33
Bradley, James	Foreman	103	10- 6-33
Bond, Bertam	Coleman	106	15- 6-33
Beveridge, John S.	Midlandvale	122	29- 7-33
Brown, J. D. B.	Mountain Park	129	26- 8-33
Blackett, W. N.	Drumheller	131	15-10-33
Budda, Joseph J.	Bellevue	145	5- 6-34
Bordula, Andrew J.	Hanna	160	16- 6-34
Baroni, Alfred	Edmonton	166	27- 6-34
Bignell, Emford L.	Gadsby	170	26- 7-34
Black, Andrew Jr.	Rosedale Station	184	17- 1-35
Brown John	Canmore	185	20- 2-35
Bridaroli, G.	Magrath	203	8- 7-35
Bragdich, George	Theima	207	24- 7-35
Bradshaw, Richard	East Coulee	209	26- 7-35
Broderick, Gideon	Canmore	221	10- 3-36
Budesheim, August E.	Dimsdale	238	20- 8-36
Batchelor, Frank	Lethbridge	275	10- 9-37
Barnes, George S.	Mountain Park	290	8- 6-38
Bulat, John	Edmonton	291	8- 6-38
Briers, Leonard	Red Deer	317	8- 7-38
Boyчук, Michael T.	Shaughnessy	324	12- 8-38
Barclay, Peter	Foothills	332	7- 9-38
Blum, Leo	Lymburn	336	19- 9-38
Bryant, E. A.	Wabamun	337	1-10-38
Briggs, Wm. A. Jr.	Drumheller	346	8- 6-39
Bachynski, John	Newcastle	348	8- 6-39
Blake, Robert	Bellevue	391	22- 8-39
Blake, Raymond	Bellevue	408	29- 2-40
Batty, George	Nordegg	3	3- 8-40
Brinkman, Alfred T.	Craigmyle	16	13- 1-41
Bianchini, Armand	Hillcrest	59	20- 7-43
Beveridge, James	Nordegg	65	30- 7-43
Barton, John S.	Nordegg	68	25-10-43
Blasetti, Angelo	Nordegg	85	17- 7-44
Baich, Victor	Luscar	89	18- 7-44
Budd, Kenneth J.	Coleman	3	16- 7-45
Berlando, Silvio	Rosedale	4	16- 7-45
Bianchini, Meno J.	Hillcrest	9	16- 7-45
Brown, Vernon J.	Coleman	14	16- 7-45
Butts, Russell J.	Alexo	38	8- 8-45
Cowan, W.	Bankhead	4	15-11-98
Chestnut, C.	Blairmore	28	26- 4-04
Churchill, J.	Frank	45	18- 4-05
Cawthorne, L.	Frank	46	18- 4-05
Chestnut, C.	Blairmore (duplicate)	28	6- 7-05
Catchpole, C.	Three Hills	2	30- 5-06
Cooke, J.	Bankhead	4	30- 5-06
*Clark, J. C.	Blairmore	33	18- 7-07
Clyne, James	Edmonton	65	1- 2-09
Cole, J. J.	Canmore	66	1- 2-09

List of Names of Holders of Third Class Certificates—Continued

Name	Address	Cert. No.	Date of Issue
Campbell, Kenneth S.	Edmonton	102	27- 1-10
Clemenson, John	Bankhead	105	30- 5-10
Carson, James	Coalhurst	120	21- 6-10
Crockett Levi A.	Hillcrest	131	22-12-10
Coupland, George	Bellevue	148	4- 7-11
Carson, George	Frank	154	8- 7-11
Crawford, George	Frank	160	17-11-11
Combs, Walter P.	Taber	164	17-11-11
Coupland, Edward	Cadomin	173	17-11-11
Cox, John	Toronto	193	13- 7-12
Crawford, John	Edmonton	197	13- 7-12
Coutts, George	Lethbridge	210	26-10-12
Clark, Robert	Lethbridge	212	31-10-12
Cranston, Michael	Drumheller	218	11-11-12
Crawford, William	Lethbridge	8	6- 3-14
Coutts, David	Hardieville	23	30- 3-14
Crabb, S. A. B.	Lethbridge	38	28- 5-14
Chaplow, Joseph	Lethbridge	49	25-11-14
Clarke, Robert G.	Drumheller	70	16- 2-15
Campbell, John H.	Canmore	71	16- 2-15
Coxon, Thomas	Nacmine	89	27- 8-15
Convery, Dennis	Coleman	107	10- 7-16
Cooper, John A.	Lethbridge	166	10- 7-17
Coutts, Anthony B.	Hardieville	178	17- 7-17
Campbell, Henry	Bellevue	188	13- 8-17
Cartwright, Chas. E.	Blairmore	198	4- 4-18
Cousens, Gilbert W.	Bellevue	199	4- 4-18
Collins, Sidney G.	Edmonton	219	5- 6-18
Chapman, Christopher	Drumheller	232	12- 6-18
Campbell, George P.	Nordegg	229	8- 6-18
Chambers, Ralph H.	Lovett	246	25- 6-19
Campbell, Thomas	Alexo	247	25- 6-19
Conley, Leroy L.	Saunders	260	26- 6-19
Chalmers, James	Edmonton	278	26- 6-19
Carr, Thomas	Cadomin	283	26- 6-19
Clark, John	Bankhead	301	26- 7-20
*Congalton, Clem S.	Vancouver, B.C.	315	26- 7-20
Cameron, Donald	Coalspur	331	26- 7-20
Cotterill, John	Rosedale	346	26- 7-20
Crawford, George	Bellevue (duplicate)	365	26- 7-20
Candlish, W. S.	Brule	366	26- 7-20
Causey, Thomas	Taber	403	1- 8-21
Craig, James M. S.	Nordegg	413	1- 8-21
Clelland, William	Lethbridge	421	1- 8-21
Curry, John	Passburg	439	3-11-21
Chalmers, Robert	Edmonton	454	31- 7-22
Cowan, James	High River	459	31- 7-22
Congdon, Milton H.	Blairmore	476	1- 8-22
China, John	Nordegg	480	1- 8-22
Cardle, James	Bellevue	481	1- 8-22
Clarke, Richard	Hillcrest	500	1-11-22
Clelland, Thomas	Edmonton	574	24- 7-24
Crichton, Robert	Hillcrest	516	17- 8-23
Carty, Patrick	Evansburg	595	20- 7-25
Canet, Camille A.	Blairmore	601	25- 7-25
Crawford, Robert	Lethbridge	619	21-10-25
Chavignaud, Louis G.	Hinton	626	26- 7-26
Crawford, Charles	Edmonton	647	1- 8-27
Conlin, Richard	Drumheller	656	14- 8-27
Crawford, James	Clover Bar	662	10- 9-27
Cumberford, James	Drumheller	672	19- 7-28
Cartledge, George F.	Aerial	673	19- 7-28
Carmichael, Malcolm	Canmore	684	1- 8-28
Colbourne, J. H.	Drumheller	710	1- 5-29
Currie, Robert	Canmore	715	7- 6-29
Christie, Joseph	Bellevue	731	17- 6-29
Clack, Robert W.	Drumheller	740	17- 6-29
Castella, Jens	Standard	743	5- 7-29
Clancy, James	Craigmyle	28	3- 8-31
Chisholm, John A.	Luscar	37	22- 8-31
Clyne, James M. Jr.	Edmonton	45	26- 8-31
Challenger, Edward J.	Magrath	86	24- 8-32
Cowan, Robert	Drumheller	92	22-10-32
Campbell, James	Cluny	107	15- 6-33
Crozier, John E.	Drumheller	128	26- 8-33
Comin, Silvio	Bellevue	148	5- 6-34
Calderbank, J. S.	Scapa	155	12- 6-34
Chamberlain, William H.	Coleman	162	19- 6-34
Craig, Andrew	Coalhurst	169	26- 7-34
Courtorelle, Alan F.	Drumheller	171	13- 8-34
Chiswick, James	Gadsby	175	27- 8-34
Clozza, Angelo	Newcastle	193	10- 6-35
Chemotti, Guiseppe	Lethbridge	239	25- 8-36
Chapman, John W.	Mountain Park	245	31- 5-37
Crawford, Hugh	Lethbridge	266	13- 7-37

List of Names of Holders of Third Class Certificates—Continued

Name	Address	Cert. No.	Date of Issue
Camarta, John	Bittern Lake	287	8- 6-38
Cumberford, Granger	Drumheller	289	8- 6-38
Campbell, Harry B.	Forestburg	303	22- 6-38
Colonel, Daniel	Edberg	318	14- 7-38
Crawford, John S.	Alix	333	7- 9-38
Curry, John	Hillcrest	368	22- 6-39
Cherrille, Orlando	Edmonton	371	22- 6-39
Campkin, Robert	Lousana	384	20- 7-39
Cooke, Chas. R.	Willow Creek	395	10- 9-39
Craig, Robert T. S.	Nordegg	4	3- 8-40
Chalmers, Robert	Edmonton	15	26-11-40
Chesney, Samuel	Cadomin	43	17- 7-42
Celli, Jerry J.	Coleman	46	18- 7-42
Carr, John R.	Cadomin	62	20- 7-43
Crawford, John C.	Bellevue	84	17- 7-44
Cowley, Robert	Saunders	86	17- 7-44
Cordel, Emile G.	Halkirk	91	18- 7-44
Carmichael, Maurice	Forestburg	94	18- 7-44
Carson, James	Edmonton (duplicate)	105	6- 3-45
Campbell, Robert G.	Coleman	17	16- 7-45
Coates, Ernest	Bellevue	35	24- 7-45
*Davies, W. J.	Edmonton	16	25-11-03
*Downs, T.	Canmore	24	25-11-03
Duggan, R. G.	Taber	27	26- 4-04
Davies, T.	Frank	49	18- 4-05
Downs, T.	Canmore (duplicate)	6	6-10-06
Dickson, S.	Commerce	18	3- 1-07
Devonshire, G.	Canmore	31	23- 5-07
Duggan, E. J.	Taber	41	18- 1-08
Davies, T. O.	Calgary	109	2- 6-10
Davidson, David	Coleman	170	17-11-11
Doodson, Robert	Coal Creek, B.C.	177	17-11-11
Duthie, Alexander F.	Pocahontas	184	28-11-11
*Digman, John H.	Royal View	198	13- 7-12
Duncan, Ninian S.	Dodds	211	31-10-12
Draper, Robert	Hillcrest	214	1-11-12
Dennis, Frederick W.	England	3	28-11-13
D'Altroy, Arthur C.	British Columbia	6	1-12-13
Devoy, William	Hardieville	9	6- 3-14
Dean, William	Bankhead	20	20- 3-14
Duggan, John	Wayne	97	12-10-15
Douglas, D. B.	Edmonton	129	26- 7-16
Davis, William	Mountain Park	192	7-11-17
Dunnigan, Edward	Evansburg	216	1- 6-18
Davies, J.	Drumheller	222	8- 6-18
Dawes, Edmund	Coleman	265	26- 6-19
Dupen, Thomas	Edmonton	275	26- 6-19
Dunlop, Hugh	Coleman	321	26- 7-20
Dunn, W. P.	Edmonton	347	26- 7-20
Dryburgh, W. W.	Nordegg	356	26- 7-20
Dieter, Walter J.	Sheerness	397	1- 8-21
Davey, George	Wayne	418	1- 8-21
Dunn, Samuel	Taber	441	15-12-21
Deere, Gladstone E.	Blackstone	449	21- 7-22
D'Amico, George	Nordegg	486	1- 8-22
Davies, John C. H.	Coalmont, B.C.	492	1- 9-22
Dudley, John T.	Hillcrest	493	1- 9-22
Davidson, Albert M.	Dodds	517	17- 8-23
Desson, Horace E.	Rosedale	526	17- 8-23
Driscoll, L.	Evansburg	560	24- 7-24
Dawson, Glen	Brule	573	24- 7-24
Dunbar, Edgar J.	Canmore	575	1- 8-24
Dunn, Charles F.	Drumheller	604	25- 7-25
Dupen, Albert E.	Lethbridge	616	14- 8-25
Davis, Fred M.	Jeffrey	619	28- 9-25
Dutton, Joseph A.	Mountain Park	623	26- 7-26
Donnachie, John	Brule	630	26- 7-26
Dixon, John O.	High River	698	16- 8-28
Davis, D. B.	Midlandvale	730	10- 6-29
Davies, James	East Coulee	784	10- 6-30
Dutka, Joseph	Canmore	794	3- 7-30
Dalziel, William	Clover Bar	14	26- 7-31
Davies, W. E.	Hillcrest	16	26- 7-31
Denholm, James	Mercoal	17	26- 7-31
Davidson, Robert M.	Coleman	33	26- 7-31
Davies, Richard	Luscar	42	26- 7-31
Dinsdale, Wm.	East Coulee	61	2- 6-32
Donaldson, Thomas	Shaughnessy	64	25- 6-32
Davies, E. M.	Wayne	95	25- 5-33
Davies, G. C.	Lundbreck	114	3- 7-33
Dutton, Alfred	Mountain Park	121	29- 7-33
Dixon, W. B.	High River	179	10- 9-34
Darbyshire, Harry	Drumheller	183	18-12-34
Droppo, Wm.	Midlandvale	208	26- 7-35
Douglas, Peter S. Jr.	Cadomin	233	22- 6-36

List of Names of Holders of Third Class Certificates—Continued

Name	Address	Cert. No.	Date of Issue
Dunbar, Robert	Hinton Trail	272	16- 8-37
Duquesne, George G.	Champion	306	22- 6-38
Dunn, Robert A.	Willow Creek	322	8- 8-38
Davies, Ernest	Big Prairie	326	26- 8-38
Dolanz, Iggy	Three Hills	361	22- 6-39
Dobson, Roy C.	Lethbridge	2	3- 8-40
Damico, Zupito	Nordeg	8	3- 8-40
Duncan, David R.	Alexo	24	15- 7-41
Driega, William	Cadomin	61	20- 7-43
Devernichuk, Mike	Lethbridge	8	16- 7-45
*Eccleston, W.	Michel, B.C.	20	3- 1-07
Evans, H.	Taber	94	3- 1-07
Evans, D.	Frank	83	3- 9-09
Embree, Hugh	Lethbridge	156	12- 7-11
Embree, Merton B.	Evansburg	239	31- 7-13
Evans, Nathaniel	Passburg	54	27-11-14
Evans, Llewellyn	Coleman	152	7- 7-17
Excoffon, Eugene	Bellevue	155	7- 7-17
*Eno John W.	Drumheller	223	8- 6-18
Eccleston, Richard	Bellevue	243	26- 6-19
Evans, Thomas O.	R.R. 2 Millet	244	26- 6-19
Evans, Gwilym	Blairmore	308	26- 7-20
Evans, Charles	Hillcrest	327	26- 7-20
Eccleston, J. W.	Mountain Park	330	26- 7-20
Evans, William	Drumheller	360	26- 7-20
Evans, Thos. L.	Calgary	367	1-11-20
Evans, James D.	Drumheller	383	1- 8-21
Entwistle, Albert V.	Kipp	471	31- 7-22
Eccleston, Thomas	Mountain Park	475	31- 7-22
Eckert, William	Sedalia	539	17- 8-23
Elkes, F. W.	Newcastle	724	7- 6-29
Evans, H.	Mountain Park	750	5- 9-29
Edwards, John	Cadomin	32	26- 7-31
Evans, David E.	Luscar	46	26- 7-31
Ewing, Fred	Donalda	97	10- 6-33
Edwards, O. E.	Cadomin	115	3- 7-33
Evans, I. L.	Blairmore	196	18- 6-35
Emblau, Archie A.	Mountain Park	268	13- 7-37
Elliott, James	Drumheller	277	26-10-37
Evans, Evan	Taber	362	22- 6-39
Emmerson, Chas. A.	Bellevue	5	3- 8-40
Eskeland, Arthur	Champion	21	12- 7-41
Ellison, Fred	Drumheller	75	14- 7-44
Fairhurst, H.	Lethbridge	39	23-12-04
Ferguson, C. J.	Edmonton	4	20-12-05
Fraser, J.	Coleman	8	3- 1-07
Fowers, C. W.	Canmore	50	29- 5-08
Fox, A.	Carbon	55	8- 1-09
Fiske, G. E.	Edmonton	88	27-11-09
Fisher, Samuel	Passburg	169	17-11-11
Ford, Allen	Burmis	183	28-11-11
Foster, William	Robb	31	28- 4-14
Ferguson, John	Commerce	34	23- 5-14
Fyfe, Walter H.	Nelson, B.C.	79	19- 8-15
Fishwick, Thomas	Stettler	98	12-10-15
Foster, James	Lethbridge	174	17- 7-17
Fisher, William J.	Bellevue	186	17- 7-17
Fisher, James	Bellevue	194	3- 4-18
Fisher, Ernest	Bellevue	256	26- 6-19
Fraser, Alec	Carmanagay	274	26- 6-19
Fraser, James	Carbon (duplicate)	286	25- 8-19
France, Harry	Calgary	288	8-10-19
Flynn, Thomas E.	Coleman	306	26- 7-20
Ford, George C.	Drumheller	310	26- 7-20
Fudge, George H.	Foothills	311	26- 7-20
Fisher, Harry	Hillcrest	338	26- 7-20
Fourneau, Jean F.	Bellevue	396	1- 8-21
Ferryman, Henry	Corbin, B.C.	447	16- 6-22
Foster, Richard	Edmonton	502	29-12-22
Fleming, Nelson	Coleman	550	1-11-22
Fulton, James	Champion	652	12- 8-27
Fry, N.	Donalda	752	5- 9-29
Fox, A. A.	Canmore	808	29-10-30
Finkbinder, Henry	Scapa	30	26- 7-31
Foster, Cyril E.	Rocky Mountain House	60	2- 6-32
Fridel, Stephen	Barrhead	63	25- 6-32
Foye, Edward B.	Delia	93	1-11-32
Forshaw, Richard	East Coulee	138	26- 1-34
Fisher, Samuel	Drumheller	139	26- 1-34
Fawcett, Elmer S.	Cardiff	150	9- 6-34
Farmer, James	Drumheller	176	27- 8-34
Farmer, Eli	Drumheller	189	10- 6-35
Fisher, John M.	Chin	190	10- 6-35
Fregren, Eric	Mercoal	280	11- 2-38
Fox, Benjamin	Carbon	297	11- 6-38

List of Names of Holders of Third Class Certificates—Continued

Name	Address	Cert. No.	Date of Issue
Folden, Irvine A.	East Coulee	323	9- 8-38
Fox, Alfred Jr.	Carbon	334	19- 9-38
Fraser, Wm. B. Jr.	Coleman	350	8- 6-39
Farnworth, George	Nordegg	30	25- 7-41
Fraser, James B.	Coleman	32	25- 7-41
Forsyth, John	Lethbridge	54	1- 7-43
Fontana, B. J.	Coleman	57	20- 7-43
Farmer, John T.	Drinnan	80	17- 7-44
France, Henry A.	Coleman	19	16- 7-45
France, James	Nordegg	24	18- 7-45
Giffen, H. R.	Coalfields	19	26- 4-04
*Gates, H.	Coleman	26	26- 4-04
Griffiths, E. H.	Canmore	33	5-12-04
Griffiths, T. J.	Lille	77	18- 6-09
Gatiss, R.	Long Coulee	85	25-11-09
Gladwin, J.	Edmonton	97	20-12-09
Gillespie, John M.	Coleman	111	2- 6-10
Gilliland, William	Cardiff	123	8-11-10
Gwilliam, David J. M.	Namoo	130	22-12-10
Gregory, John B.	Passburg	128	17-12-10
Garrett, John	Lille	147	4- 7-11
Griffiths, John T.	Lille	168	17-11-11
Garbett, Richard	Michel, B.C.	180	23-11-11
Gorton, James	Hillcrest	203	22- 7-12
Green, Henry V.	Halkirk	1	1-11-13
Grant, Robert H.	Three Hills	2	23-10-13
Grant, Robert	Lethbridge	10	10- 3-14
Goldie, William	Lethbridge	24	1- 4-14
Graham, Robert	Clover Bar	50	27-11-14
*Gilday, Michael E.	Drumheller	63	11-12-14
Gillespie, John C.	Drumheller	132	3- 8-16
Greenhalgh, Richard M.	Coleman	154	7- 7-17
Givens, John	Drumheller	158	10- 7-17
Goodrick, William L.	Commerce	168	17- 7-17
Goodwin, Andrew	Bellevue	187	13- 8-17
Gammie, John S.	Drumheller	226	8- 6-18
Grant, Donald A.	Hillcrest	242	26- 6-19
Gordon, Thomas	Drumheller	248	26- 6-19
Green, Henry V.	Halkirk (duplicate)	291	15-11-19
Goodwin, G. W.	Bellevue	320	26- 7-20
Gidman, J. H.	Taber	348	26- 7-20
Gibson, Henry	Edmonton	349	26- 7-20
Gilmour, Pete	Bragg Creek	363	26- 7-20
Gibson, William	Edmonton	370	26- 7-20
Goodwin, Watts	Bellevue	408	1- 8-21
Galbraith, A. G.	Coalhurst	460	31- 7-22
Gregory, William W.	Mountain Park	496	6- 9-22
Gavellin, Fred	Blairmore	519	17- 8-23
Gibson, Joseph C.	Cardston	587	24- 1-25
Gilmour, John	Cadomin	605	25- 7-25
Gordon, David L.	Drumheller	636	6- 8-26
Gibson, Thomas P.	Midlandvale	663	16- 9-27
Gallagher, John	Rosedale Station	760	4- 6-30
Goodwin, William	Bellevue	766	4- 6-30
Green, William	Luscar	775	10- 6-30
Guisto, G.	Beazer	6	13- 7-31
*Graham, William	Coleman	19	26- 7-31
Gotheridge, W. V.	Round Hill	26	26- 7-31
Goodwin, Albert E.	Bellevue	43	26- 7-31
Gibson, James	Willow Creek	75	25- 6-32
Guiney, C. John	Rosebud	79	25- 6-32
Galenza, P. L.	Leduc	113	3- 7-33
Gardner, H. H.	Coleman	135	31-10-33
*Grenda, Stanley	Turin	198	28- 6-35
*Graver, G.	East Coulee	201	4- 7-35
Garner, E. Denison	Canmore	222	3- 6-36
Gibney, Frank	Grande Prairie	260	23- 6-37
Greig, Norman	Dinant	293	10- 6-38
Grant, Alexander	Hillcrest	298	13- 6-38
Groombridge, Thos.	Edberg	312	4- 7-38
Green, Walter	East Coulee	328	29- 8-38
Green, Wm. J.	Dinant	343	13- 2-39
Gill, Peter	Thorsby	352	8- 6-39
Griffiths, Ed.	Foothills	367	22- 6-39
Gotheridge, C. F.	Round Hill	370	22- 6-39
Grubisich, Walter	Hinton	375	4- 7-39
George, Pete	Three Hills	386	25- 7-39
Gladwin, Lewis C.	Carstairs	19	11- 7-41
Goods, Peter	Drumheller	39	17- 7-42
Gibson, George	Blairmore	67	9-10-43
Gerla, Bernard J.	Lethbridge	72	14- 7-44
Gosney, Fred	Cadomin	76	14- 7-44
Gresl, John	Bellevue	87	17- 7-44
Galvon, Joseph J.	Blairmore	21	16- 7-45
Holmes, G. E.	Fernie, B.C.	15	1903

List of Names of Holders of Third Class Certificates—Continued

Name	Address	Cert. No.	Date of Issue
Hood, Andrew	Frank	20	21- 6-03
Hadfield, John	Canmore	23	21- 6-03
Harrison, Thomas	Cadomin	29	11- 7-04
Haines, Thomas	Coleman	37	23-12-04
Harvie, Robert	Lethbridge	40	23-12-04
Hannen, James	Canmore	1	30- 5-06
*Holden, James	Bankhead	13	3- 1-07
Hadfield, John	Coleman (duplicate)	21	4- 4-07
Humble, Stephen T.	Bellevue	29	23- 5-07
Hamilton, Charles	Edmonton	36	10- 1-08
Hilling, James	Coleman	43	23- 1-08
Hallworth, Albert	Bellevue	52	12- 6-08
Hayes, Robert	Blairmore	60	22- 1-09
Henderson, W.	Calgary	61	26- 1-09
Harvie John	Taber	68	1- 2-09
Hutton, Isaac	Bellevue	99	27-12-09
Hartley, William	Bankhead	110	2- 6-10
Hill, James	Canmore	114	3- 6-10
*Hulme, Chas.	Hillcrest	124	17-12-10
Henderson, James	Reid Hill	134	30-12-10
Hutton, John	Edmonton	135	30-12-10
Henderson, Samuel	Reid Hill	136	30-12-10
Halliday, George	Champion	155	8- 7-11
Hughes, William R.	Barnwell	181	23-11-11
Hutton, George	Bellevue	186	2-12-11
Hutchinson, Peter	Ardley	202	22- 7-12
Hcap, Robert	Lundbreck	206	10- 8-12
Hunter, Alexander B.	Drumheller	207	10- 8-12
Harries, Henry C.	Coleman	209	26-10-12
Hutton, David T.	Bellevue	241	31- 7-13
Halliday George W.	Nanaimo, B.C. (duplicate)	248	31- 7-13
Heathcote, Joseph	Edmonton	32	28- 4-14
Harrison, William	Cassidy, B.C.	41	27- 8-14
Hynd, William	Elcan	52	27-11-14
Hutton, Hugh	Bellevue	60	5-12-14
Hargreaves, George	Lethbridge	65	11-12-14
Hopkins, William	Coleman	93	1- 9-15
Huddart, Matthew	Bellevue	102	18-11-15
Hamilton, John	Lethbridge	120	10- 7-16
Howells, John	Elcan	126	19- 7-16
Hyde, Isaac	Cadomin	134	15- 9-16
Holmes, Robert	Coleman	141	11-11-16
Hunter, John T.	Garden Plain	148	7- 7-17
Holland, Thomas	Lethbridge	161	10- 7-17
Hastings, Andrew P.	Champion	176	10- 7-17
Higgins, John	Bellevue	201	18- 4-18
Hodgkinson, John A.	Mountain Park	205	1- 6-18
Hudyma, John	Pocahontas	207	1- 6-18
Head James	Taber	209	1- 6-18
Hooks, John W.	Drumheller	210	1- 6-18
Hedges, Richard	Beverly	239	29- 8-18
Higney, John	Coalhurst	245	26- 6-19
*Hillary, John	Rosedale	258	26- 6-19
Hopkins, John T.	Coleman	259	26- 6-19
Hunter, James	Lethbridge	276	26- 6-19
Huff, L. E.	Lethbridge	325	26- 7-20
Hutchison, J. J.	Lovett	332	26- 7-20
Hawkins, E. L.	Nordeg	339	26- 7-20
Hillary, Joseph	Drumheller	391	1- 8-21
Hamilton, Thomas M.	Blairmore	393	1- 8-21
Hutchinson, George E.	Nordeg	404	1- 8-21
Hall, James	Brookdale	402	1- 8-21
Hetherington, R. Jr.	Wayne	420	1- 8-21
Hogg, Charles M.	Lethbridge	424	1- 8-21
Hamilton, Joseph J.	Lethbridge	434	29- 2-21
Hall, Ernest	Wayne	438	10-10-21
Horner, Charles	Edmonton	440	16-12-21
Hopkins, William H.	Drumheller	451	31- 7-22
Hooten Robert	Edmonton	505	15- 2-23
Hughes, Harry	Natal, B.C.	506	9- 3-23
Harris, Rupert S.	Edmonton	513	17- 8-23
Hawkins, Harold	Drumheller	541	1- 9-23
Hulme, James	Carbon	564	26- 2-24
Hart, Daniel	Wayne	566	26- 6-24
Hadfield, W. A.	Coleman	567	16- 7-24
Harries, John	Wayne	568	16- 7-24
Hughes, Angus	Coleman	572	24- 7-24
Horne, James	Cadomin	576	1- 8-24
Holliday, William	Drumheller	596	20- 7-25
Hagblad, Theodore	Lethbridge	602	25- 7-25
Hetherington, Joseph W.	Carbon	609	25- 7-25
Hronek, Ben	Halkirk	614	1- 8-25
Hbbert, William T.	Dinant	622	11- 5-26
Hansen Knud	Aerial	644	1- 8-27
Henderson, Andrew	Wayne	655	14- 8-27

ANNUAL REPORT, 1945

131

List of Names of Holders of Third Class Certificates—Continued

Name	Address	Cert. No.	Date of Issue
Hamilton, John M.	Hanna	657	14- 8-27
Hillary, Michael	Midlandvale	665	26-10-27
*Horne, Thos. Jr.	Luscar	687	1- 8-28
Hart, James J.	Coleman	692	16- 8-28
Hall, Robert	Canmore	703	24-11-28
*Hadwell, A. J.	Bellevue	717	7- 6-29
Halbert, David	Trochu	723	7- 6-29
Hillary, H.	Bellevue	736	17- 6-29
Hulbert, H. A.	Coleman	747	23- 7-29
Hutton, Walter C.	Coalhurst	756	18- 2-30
Hopkins, Arthur J.	Foothills	761	4- 6-30
Heyworth, E. S.	Beverly	763	4- 6-30
Hunter, Thomas	Edmonton	805	22-10-30
Hooks, Albert	Drumheller	807	29-10-30
Harrop, Wm.	Robb	2	20- 1-31
Hogg, John	Foothills	22	13- 7-31
Hadwell, Thomas C.	Blairmore	27	26- 7-31
Howells, Edward W.	Mercoal	52	6- 1-32
Halbert, Robert	Trochu	71	25- 6-32
Hook, Alfred J.	Halkirk	78	25- 7-32
Holton, Joseph	Magrath	140	5- 4-34
Hill, Ernest	Coleman	144	5- 6-34
Halbert, Benjamin G.	Trochu	151	9- 6-34
Hanson, Andrew	Three Hills	187	10- 6-35
Halbert, Robert A.	Trochu	217	23- 9-35
Hilbert, Waddington	Mercoal	240	13-10-36
Holliday, Thomas	Drumheller	247	1- 6-37
Hanna, Thomas	Mercoal	269	21- 7-37
Horz, E. Louis C. J.	Evansburg	308	22- 6-38
Hamilton, Duncan C.	Drumheller	320	28- 7-38
Henry, Wm. B.	Newcastle	339	9-11-38
Hetherington, W. B.	Calgary	340	9-11-38
Honeyman, Maurice R.	Robb	369	22- 6-39
Heidel, Herbert G.	Priddis	401	12-10-39
Horkulak, Andrew	Thorsby	25	15- 7-41
Hawells, David T.	Lethbridge	27	15- 7-41
Hibbert, George	Three Hills	28	15- 7-41
Harris, Edward V.	Rosedale	52	29- 7-42
Henderson, Austin J.	Luscar	79	17- 7-44
Hotte, Leonard	Coleman	2	17- 7-45
Hucik, Louis	Blairmore	15	17- 7-45
Holowatiuk, William	Newcastle	25	18- 7-45
Herman, John R.	Mountain Park	33	25- 7-45
Harpham, Henry A.	Clover Bar	37	27- 7-45
Ironmonger, John	Hillcrest	145	3- 7-11
Instone, Henry	Hillcrest	197	3- 4-18
Ironmonger, William	Hillcrest	487	1- 8-22
Ivan Mike	East Coulee	199	28- 6-35
Inverarity, William	Rosebud	382	4- 7-39
Jones, Evan	Coalfields	12	26- 4-04
James, Joseph	Frank	25	26- 4-04
Jones, Samuel A.	Nanaimo, B.C.	17	26- 4-04
Jones, Erskine	Coalfields	47	18- 4-05
James, Henry	British Columbia	53	14- 7-08
Jones, David	Edmonton	69	1- 2-09
Jones, Jack	Cardiff	127	17-12-10
Jones, Peter	Lethbridge	195	13- 7-12
Jordan, William	East Coulee	220	20-11-12
Joyce, Michael	Blairmore	224	25-11-12
*James William	Pocahontas	234	31- 7-13
Jackson, John	Bellevue	246	31- 7-13
James, John	Cadomin	28	21- 4-14
Jones, David	Commerce	55	27-11-14
Johnson, Albert	Coleman	88	26- 8-15
Jones, Daniel H.	Lovett	99	10-12-15
Jones, Evan J.	Calgary	144	3- 7-17
Jinks, William E.	England	180	25- 7-17
Jones, John H.	Taber	214	1- 6-18
James, Isaac A.	Coleman	252	26- 6-19
Jones, Richard	Nordeg	289	8-10-19
Johnstone, Alexander	Clover Bar	329	26- 7-20
James, Thomas	Saunders	340	26- 7-20
Jones, Griffith	Willow Creek	375	17- 6-21
Jordon, Benjamin	Calgary	463	31- 7-22
Jones, Edward B.	Hillcrest	469	31- 7-22
Jones, Daniel	Edmonton	474	31- 7-22
Jones, Richard M.	Wayne	491	1- 9-22
Jackson, Thomas	Coleman	495	1- 9-22
Jones, Arthur	Coleman	547	15- 8-23
Johnson, Chris	Carbon	561	28-12-23
Jones, David I.	Wayne	578	11- 8-24
*Jones, I.	Edmonton	589	3- 3-25
Jones, Elias	Coleman	680	1- 8-25
Johnson, Thomas	Drumheller	696	16- 8-28
Jubb, J. W.	Drumheller	708	1- 5-29

List of Names of Holders of Third Class Certificates—Continued

Name	Address	Cert. No.	Date of Issue
Jones, Jenkin	Luscar	771	4- 6-30
James, Isaiah	Rumsey	801	18-10-30
Johnson, Moses F.	Alix	804	18-10-30
James, Albert J.	Forestburg	25	26- 7-31
Jones, Douglas W.	Pincher Creek	49	27- 9-31
Johnson, Alexander J.	Ardley	68	25- 6-32
Jones, Wm. J.	Rosalind	74	25- 6-32
Jones, W. J.	Newcastle	100	10- 6-33
Jones, E. W.	Drumheller	127	22- 8-33
Jones, David	Wayne	133	25- 9-33
James, Hiram	Heisler	158	16- 6-34
James, Alfred	Drumheller	182	12-10-34
Johnson, Martin R.	Rumsey	234	22- 6-36
Jones, Wyndham	Coleman	246	1- 6-37
James, Joseph	Cadomin	248	3- 6-37
Jones, J. R. B.	Hinton	301	22- 6-38
James, John C.	Mountain Park	7	3- 8-40
James, William	Mountain Park	14	6-11-40
Jackson, Harold W.	Forestburg	51	26- 7-42
Jones, William	Rosedale	74	14- 7-44
Kerr, W. R.	Coleman	89	29-11-09
*Kirkeberg, Henry S.	Michel, B.C.	87	27-11-09
Kerr, Robert T.	Passburg	75	17- 6-09
Kerr, Robert	Lundbreck	76	17- 6-09
Kaye, Herschal	Maycroft	191	4- 1-12
Kemp, David	Beaver Mines	201	22- 7-12
Keynon, William	Mountain Park	44	28- 9-14
Knox, Joseph	Hardieville	119	10- 7-16
Kelly, Patrick	Edmonton	147	7- 7-17
Kerrison, Thomas W.	Magrath	163	10- 7-17
Koentges, John	Blairmore	182	25- 7-17
Kyle, Daniel C.	Hillcrest	185	25- 7-17
Klejko, Stephen	Coleman	213	1- 6-18
King, John J. J.	Nordegg	221	8- 6-18
Kirkham, Thomas	Sheerness	284	26- 6-19
Kehl, Isodore	Big Valley	359	26- 7-20
Krause, Herman F.	Lethbridge	407	1- 8-21
Kay, Arthur	Coleman	501	1-11-22
Klatt, Rudolph E.	Evansburg	544	1- 9-23
Knudson, Arthur	Canmore	586	4-12-24
Kendrick, Samuel O.	Edmonton	597	20- 7-25
Kennedy, William	Mountain Park	606	25- 7-25
Kergan, Robert G.	Lethbridge	610	25- 7-25
Krupper, A.	Drumheller	711	7- 6-29
King, Joseph	Coalhurst	726	7- 6-29
Kay, Walter S.	Drumheller	754	12-11-29
Kerr, Robert G.	Blairmore	764	4- 6-30
Koentges, Joseph	Bellevue	770	4- 6-30
Kowal, Alex.	Canmore	790	14- 6-30
Kennedy, Joseph	Willow Creek	799	10- 9-30
Kiernan, Patrick	Robb	3	20- 2-31
Kay, William	Drumheller	53	26- 2-32
Kirkeby, B. A.	Craigmyle	101	10- 6-33
Keough, Frank J.	Drumheller	134	30- 9-33
Kurp, Benjamin C.	Alix	143	5- 6-34
Kurp, Thomas J.	Delburne	172	13- 8-34
Krossa, O.	Shaughnessy	181	9-10-34
Keith, Albert	East Coulee	250	11- 6-37
Keith, Roy	Willow Creek	254	11- 6-37
Knight, William	Carbondale	261	23- 6-37
Kummer, William	High River	265	23- 6-37
Kane, Frank	Hinton	344	3- 4-39
Koshman, Alexander T.	Shaughnessy	372	22- 6-39
Kozmeniuk, Steve	East Coulee	378	4- 7-39
Kryskow, Michael	Carbondale	20	12- 7-41
Kubin, John J.	Coleman	42	17- 7-42
Kinnear, John A.	Coleman	64	22- 7-43
Kusnir, John	Cambria	81	17- 7-44
Kormendy, Alex	Rosedale	99	18- 8-44
Kormendy, Joe	Rosedale	103	25-10-44
Kubica, Mike P.	Coleman	12	16- 7-45
Keef, James	Mercoal	26	18- 7-45
*Livingstone, Robert	Lethbridge	7	21-11-98
*Livingstone, Jas. C.	Lethbridge	18	26- 4-04
Learmonth, A. J.	Redcliff	42	23- 1-08
Love, William	Edmonton	86	27-11-09
Lamont, David	Cadomin	98	24-12-09
Letcher, John J.	Hillcrest	149	4- 7-11
Leblanc, Emile	Wayne	153	8- 7-11
Littler, Robert	Michel, B.C.	166	17-11-11
Loxton, George	Fernie, B.C.	176	17-11-11
Littler, John	Michel, B.C.	190	30-12-11
Littler, Matthew	Michel, B.C.	226	7-12-12
Laight, Jonas	Medicine Hat	233	3- 5-13
*Ludbrook Ellis E.	Bickerdike	237	31- 7-13

List of Names of Holders of Third Class Certificates—Continued

Name	Address	Cert. No.	Date of Issue
Lynch, Stewart	Canmore	26	15- 4-14
Loxton, John	Fernie, B.C.	51	27-11-14
Letcher, Joseph H.	Lovett	100	12-10-15
Lamond, David	Evansburg	109	10- 7-16
Loftus, Edward	Drumheller	111	10- 7-16
Lewis, Thomas	Hardieville	131	26- 7-16
Longworth, Thomas	Calgary	146	5- 7-17
Logan, John T.	Drumheller	190	6- 9-17
*Lote, Francis	Hillcrest	195	3- 4-18
Lohmaier, Pcter	Sheerness	238	15- 7-18
Lee, Walter J.	Nordeg	269	26- 6-19
Lindsay, John	Coalhurst	272	26- 6-19
Lindsay, James	Coalhurst	273	26- 6-19
Lawrence, John	Drumheller	294	1-12-19
Lewis, Hanbury	Calgary	364	1-11-20
Leonard, Philip	Nordeg	479	1- 8-22
Lytkowski, William P.	Canmore	503	30-12-22
Lecuyer, Glenn	Midlandvale	562	31-12-23
Lewis, John W.	Mountain Park	580	25- 9-24
Lavis, George	East Coulee	585	14-11-24
Longworth, John	Bellevue	634	30- 7-26
Lowry, William J.	Drumheller	641	22- 9-26
Leltch, Thomas	Drumheller	660	1- 9-27
Lazzarotto, Peter	Picture Butte	682	1- 8-28
Lammie, Robert	Beverly	694	16- 8-28
Lehmann, Max	Wayne	742	5- 7-29
Lund, Fred	Blairmore	767	4- 6-30
Laing, W. R.	Cadomin	774	10- 6-30
Letcher, R. C.	Hillcrest	795	12- 7-30
Leivers, Albert	Wayne	12	13- 7-31
Low, James A.	Coleman	147	5- 6-34
Loten, Henry V.	Newcastle	186	20- 2-35
Lonsbury, W. P.	Coleman	191	10- 6-35
Lloyd, James H.	Blairmore	192	10- 6-35
Lewis, Fred	Mountain Park	227	22- 6-36
Lister, Arthur L.	Cadomin	232	22- 6-36
Lynass, John	Delburne	267	13- 7-37
Louhella, Sula A.	Canmore	295	10- 6-38
Lynass, James C.	Delburne	310	22- 6-38
Lesson, Steve	Bellevue	354	8- 6-39
Loula, William	Bellevue	374	22- 6-39
Luini, Louis	Hillcrest	376	4- 7-39
Leckie, Samuel	Rosedale Station	407	26- 1-40
Larson, Tony	Edberg	33	25- 7-41
Lidgett, Joseph L.	Mercoal	60	20- 7-43
Levesque, C.	Aerial	82	17- 7-44
Le Gear, Max	Forestburg	100	18- 8-44
Livingstone, R. D.	Lethbridge	39	16-10-45
Musgrove, William	Canmore	9	23- 8-00
Mattson, Matt	Frank	34	5-12-04
*Morris, David	Edmonton	45	24- 2-08
Machin, J. C.	Strathcona	46	26- 2-08
Moore, Thomas E.	Drumheller	56	11- 1-09
Mather, Thomas	Luscar	96	8-12-09
Morgan, Owen	Saunders	143	3- 7-11
Munro, William K.	Lille	150	4- 7-11
Muir, David	Edmonton	151	8- 7-11
Miller, Walter	Edmonton	159	25- 8-11
Moore, James H.	Coleman	167	17-11-11
Massey, Harry	Michel, B.C.	172	17-11-11
Murray, John	Lille	174	17-11-11
Mason, Samuel	Taber	187	6-12-11
Morrison, Malcolm	Midlandvale	189	30-12-11
Melling, Peter	Coalhurst	208	26-10-12
Mackie, John	Hillcrest	221	25-11-12
Mackin, John W.	Coleman	240	31- 7-13
Muir, Alexander	Hardieville	12	10- 3-14
Miller, Joseph	Stafford Village	14	10- 4-14
Muir, Robert	Bankhead	21	23- 3-14
Murray, David	Hillcrest	35	26- 5-14
Mather, John	Edmonton	45	26-10-14
Muir, James	Bankhead	57	5-12-14
Marsh, Ernest	Wayne	61	5-12-14
Morgan, William J.	Luscar	64	11-12-14
Martin, William H.	Brule	69	28- 1-15
Marsh, John H.	Lethbridge	75	20- 3-15
*Mallabone, Ernest	Canmore	105	7- 7-16
Miller, David L.	Taber	114	10- 7-16
Miller, Peter P.	Drumheller	127	26- 7-16
*Martin, Richard	Taber	135	25- 9-16
Maddison, Wm.	Mountain Park	136	25- 9-16
Mitchell, John	Evansburg	143	27- 2-17
Morgan, Robert M.	Coleman	160	10- 7-17
*Morse A. T.	Morse	172	17- 7-17
Michayluck, John G.	Luscar	184	25- 7-17

List of Names of Holders of Third Class Certificates—Continued

Name	Address	Cert. No.	Date of Issue
Marsh, William	Drumheller	230	8- 6-18
Mathewson, James	Nevis	236	22- 6-18
Mossey, Thomas M.	Lethbridge	237	5- 7-18
Miller, James	Aerial	266	26- 6-19
Miller, John R.	Aerial	293	20-11-19
Monkton, William	Rosedale	322	26- 7-20
Miller, Joseph Jr.	Lethbridge	326	26- 7-20
Milnes, John	Bellevue	334	26- 7-20
Melling, Joseph	Coalhurst	335	26- 7-20
Maddison, John	Hillcrest	354	26- 7-20
Meivln, J. L.	Lethbridge	371	28-12-20
Meyers, August	Grande Prairie	406	1- 8-21
Minue, Graydon B.	Nordeg	410	1- 8-21
Mitchell, Archie	Luscar	412	1- 8-21
Metcalf, Joseph W.	Coalhurst	498	1-11-22
Mossey Robert	Frank	507	17- 5-23
Macri, D.	Cadomin	518	17- 8-23
Martin, David	Blairmore	527	17- 8-23
Miller, William	Drumheller	535	17- 8-23
Marsh, Walter	Kellog, Idaho	538	17- 8-23
*Martin, Henry Sr.	Saunders	549	15- 9-23
Mitchell, Hugh J.	Foothills	569	24- 7-24
Muir, Alexander	Coleman	593	20- 7-25
Mackie, James	Big Valley	608	25- 7-25
Millar, David	Mercoal	627	26- 7-26
Mackie, William	Drumheller	645	1- 8-27
Metcalf, Joseph W.	Drumheller	666	16- 1-28
Musgrove, Henry B.	Canmore	674	19- 7-28
Muncy, Howard C.	Foreman	693	16- 8-28
Mayon, Daniel	Drumheller	707	20- 3-29
Millar, C. C.	Bellevue	714	7- 6-29
Morris, David	Bellevue	720	7- 6-29
Mosson, John	Drumheller	734	17- 6-29
Meek, Fred G.	Heisler	737	17- 6-29
Morris, Wm.	Edmonton	744	12- 7-29
Morris, Robert S.	Aerial	745	12- 7-29
Marsh, Wm. J.	Midlandvale	776	10- 6-30
May, John	Beverly	786	14- 6-30
Mathieson, David	Edmonton	789	14- 6-30
Muir, Thomas	Coalhurst	800	18-10-30
Morgan, Ernest	Blairmore	15	13- 7-31
Madsen, S.	Luscar	39	26- 7-31
Marsh, John	Coalhurst	51	6- 1-32
*Mitchell, Chas. G.	Pincher Creek	82	24- 8-32
Marsh, Walter	Coleman	84	24- 8-32
Mitchinson, Arthur	Donalda	88	23- 9-32
Molyneux, Thomas	Aerial	102	10- 6-33
Molzan, Henry	East Coulee	111	15- 6-33
Muir, James	Edmonton	137	28-12-33
Morse, William J.	Hanna	156	12- 6-34
Mitchell, William	Dimsdale	174	27- 8-34
Morel, Marcel	Ghost Pine Creek	180	25- 9-34
Menzies, Wm.	Drumheller	212	10- 8-35
Miller, Douglas	Edmonton	236	4- 7-36
Marshall, Robert	Leduc	255	11- 6-37
Marshall, Chas. H.	Leduc	256	11- 6-37
Mitchell, Thomas	Coleman	257	23- 6-37
Muir, George	Edmonton	265	13- 7-37
Marsh, Walter W.	Delburne	279	12-11-37
Milis, Jonathan J.	Rosalind	283	22- 4-38
Miskow, Michael J.	Canmore	284	7- 6-38
Morkwia, Victor Jr.	Canmore	285	7- 6-38
Morris, Robert L.	Coleman	294	10- 6-38
Murphy, Peter J. Jr.	Drumheller	325	15- 8-28
Moran, James Jr.	Edmonton	342	10-12-38
Melson, Philip	East Coulee	359	8- 6-39
Marconi, John	Coleman	363	22- 6-39
Marshall, Albert C.	Della	365	22- 6-39
Mitchell, David	Luscar	380	4- 7-39
Martin Bert W.	Alexo	385	25- 7-39
Madsen, Soren	Mountain Park	406	30-11-39
Mitchell, Robert A.	Luscar	10	4- 9-40
Mather, John H.	Namao	13	29-10-40
Mitchinson, Thomas	Donalda	18	11- 7-41
Marconi, Gordon	Coleman	22	12- 7-41
Marasco, Frank	Nordeg	23	15- 7-41
Morrison, Neil	Mercoal	26	15- 7-41
Merrington, Robert H.	Ryley	31	25- 7-41
Mullinger, William H.	Three Hills	35	20- 8-41
Martin, William H.	Rosevear	53	4-12-42
Mather, Stanley	East Coulee	78	15- 7-44
Mitchell, J. M. P.	East Coulee	83	17- 7-44
Mattson, Ailie E.	Bellevue	5	16- 7-45
Mottishaw, Walter R.	Bellevue	13	16- 7-45
Molnar, Vendel S.	Hillcrest	23	17- 7-45

List of Names of Holders of Third Class Certificates—Continued

Name	Address	Cert. No.	Date of Issue
Morris, John	Bellevue	30	20- 7-45
McKay, John J.	Lethbridge	5	19-11-98
McKinnon, H. G.	Canmore	36	5-12-04
McGregor, Alex.	Cardiff	41	16- 1-05
McCulloch, Alex.	Cadomin	43	18- 4-05
McDonald, J. A.	Blairmore	44	18- 4-05
McVey, William	Frank	39	10- 1-08
McLeary, Stewart	Lethbridge	58	12- 1-09
McMillan, William D.	Coleman	72	25- 2-09
McKinnon, A. J.	Canmore	62	29- 1-09
McLenhan, John A.	Lovett	51	8- 6-08
McGarry, Martin	Michel, B.C.	59	19- 1-09
McDonald, James A.	Lille	91	29-11-09
McMillan, Donald	Coleman	107	31- 5-10
McDonald, Duncan	Drumheller	112	2- 6-10
*McDonald, Hector	Coleman	115	3- 6-10
McDonald, William C.	Lethbridge	122	16- 7-10
McDevitt, James J.	Cadomin	129	22-12-10
McGladrie, John	Lille	152	8- 7-11
McMullin, Joseph	Hillcrest	171	17-11-11
McGough, Joseph P.	Bellevue	219	18-11-12
McDonald, James O. C.	Coleman	225	25-11-12
McDonald, Noble M.	Bellevue	5	28-11-13
McGowan, James K.	Lethbridge	13	10- 3-14
McLeod, John A.	Cadomin	74	8- 3-15
McLellan, John A.	Mercoal	77	8- 5-15
McIlveen, William	Lovettville	80	19- 8-15
McAndrew, Robert	Clover Bar	81	19- 8-15
McAndrew, John	Calgary	83	19- 8-15
McKean, George J.	Bellevue	121	10- 7-16
McLean, William	Mountain Park	122	10- 7-16
McQueen, Andrew	Edmonton	124	19- 7-16
McMillan, Daniel	Drumheller	149	7- 7-17
McDonald, John H.	Nanaimo, B.C.	164	10- 7-17
McKinnon, John L.	Coleman	189	4- 9-17
McAndrew, Robert	Clover Bar (duplicate)	196	3- 4-18
McDonald, George	Drumheller	212	1- 6-18
McKcay, William J. K.	Ontario	240	28- 1-19
McDicken, James	Coleman	251	26- 6-19
McFegan, Robert	Michel, B.C.	255	26- 6-19
MacPherson, John M.	Coalhurst	257	26- 6-19
McQueen, George	Nordegg	270	26- 6-19
McDade, John	Drumheller	290	8-11-19
McGowan, William	Lethbridge	317	26- 7-20
McKinnie, John	Drumheller	369	26- 7-20
McKenna, Harry	Pocahontas	376	17- 6-21
McAskill, Alexander	Drumheller	380	1- 8-21
McGaw, A. M. S.	Carmangay	398	1- 8-21
McGregor, Thomas B.	Lethbridge	417	1- 8-21
McNab, Murdock	Coalhurst	419	1- 8-21
McLeod, Gordon J.	Mountain Park	422	1- 8-21
McGladne, Andrew	Lethbridge	423	1- 8-21
MacDonald, William	Drumheller	431	29- 8-21
McCubrey, James	Drumheller	458	31- 7-22
McGuire, George	Dinant	466	31- 7-22
McGuire, James S.	Dinant	467	31- 7-22
MacLeod, Roderick	Coleman	470	31- 7-22
McEachern, Malcolm	Wayne	531	17- 8-23
McLennan, George A.	Drumheller	534	17- 8-23
McNeil, James	Cadomin	537	17- 8-23
McLeod, Allan	Rosedale	543	1- 9-23
McLafferty, P.	Bellevue	551	1-11-23
McLeod, John R.	Bellevue	591	27- 5-25
McAllister, David	Mountain Park	613	1- 8-25
McKinnon, Alexander	Coleman	632	30- 7-26
McCulloch, Johnston	Coleman	642	30- 7-26
McDonald, Thomas	Rosedale	653	12- 8-27
McFegan, Alex.	Drumheller	661	10- 9-27
*McCormack, A. D.	Castor	675	19- 7-28
Macaulay, John C.	Coalhurst	678	19- 7-28
MacDonald, Clyde P.	Bellevue	685	1- 8-28
McDonald, James W.	Mountain Park	709	1- 5-29
MacDonald, Leslie	Bellevue	713	7- 6-29
MacLeod, Lloyd	Coalhurst	725	7- 6-29
MacAllister-Thompson, D. S. B.	Rosedale	735	17- 6-29
McNab, Duncan	Lethbridge	739	17- 6-29
McAndrew, John Jr.	Blairmore	769	4- 6-30
McDonald, William	Bellevue	777	10- 6-30
McCutcheon, Jas. A.	Midlandvale	803	18-10-30
McMurdo, Thomas	East Coulee	18	13- 7-31
McLeod, Arthur	Drumheller	50	22-10-31
McGowan, John	Drumheller	57	2- 6-32
McKinley, James	Huxley	72	25- 6-32
McColl, Alexander	Lethbridge	109	15- 6-33
McMillan, William	Rosebud	168	26- 7-34

List of Names of Holders of Third Class Certificates—Continued

Name	Address	Cert. No.	Date of Issue
McKinlay, James	Perbeck (duplicate)	224	3- 6-36
McDonald, Wm. I.	Drumheller	235	22- 6-36
MacDonald, George G.	Beverly	242	14- 1-37
McGregor, Alexander	Lethbridge	271	26- 7-37
MacKenzie, John	East Coulee	299	13- 6-38
McMullen, Sidney G.	Drumheller	311	22- 6-38
McIntyre, Arnold J.	Mercoal	331	7- 9-38
McLaren, Fred	Dinant	341	14-11-38
McCulloch, Archibald	Coleman	349	8- 6-39
MacQuarrie, Hector	Drinnan	364	22- 6-39
McLaughlin, Michael	Luscar	403	30-10-39
McMillan, Alexander	Rosebud	34	28- 7-41
McNeil, Thomas	Mountain Park	36	4- 3-42
McDonald, Kenneth L.	Bellevue	40	17- 7-42
McIsaac, John D.	Burnis	45	17- 7-42
McLafferty, Daniel	Bellevue	50	26- 7-42
McGladrie, Robert I.	Nevis	63	24- 7-43
McMillan, James	Mountain Park	66	11- 8-43
McGuckie, J. M.	Wayne	97	3- 8-44
McQueen, Alexander	Mercoal	101	5-10-44
MacKay, Duncan	Mercoal	7	16- 7-45
Nelson, Horatio	Lundbreck	11	3- 1-07
Nanson, Thomas H.	Bellevue	15	3- 1-07
*Nicol, James	Frank	34	26-12-07
Nicol, George	Nacmine	27	21- 4-14
Nugent, Bernard	Camrose	133	30- 8-16
North, Walter	Blairmore	204	18- 4-18
Nelson, Walter W.	Coleman	462	31- 7-22
Nicholson, Peter	Cadomin	472	31- 7-22
Niskanen, Herman	Canmore	671	19- 7-28
Nisbet George	Beverly	759	4- 6-30
Negrello, Mike	Coalhurst	7	13- 7-31
Naegeli, Otto	Midlandvale	54	26- 2-32
Novak, Mike	Milk River	56	4- 5-32
Norman, John	Beverly	136	31-10-33
Nielsen, Nils P.	Carbondale	223	3- 6-36
Nelson, John B. H.	Dinant	335	19- 9-38
Nelson, John	Rosedale Station	356	8- 6-39
Niblett, Ronald J.	Rosedale	41	17- 7-42
Norris, Fred J.	Mountain Park	32	25- 7-45
Oliphant, J. H.	Carbon	26	17- 5-07
Oliphant, John	Medicine Hat	79	16- 7-09
O'Donnell, Thomas	Rosedale	139	17- 3-11
Ottewell, William J.	Clover Bar	245	31- 7-13
Oakes, Robert	Blairmore	104	16- 6-16
Oakley, John	Edmonton	115	10- 7-16
Oliver, B.	Magrath	342	26- 7-20
Owen, Thomas	Michel, B.C.	442	10- 3-22
Ostler, James	Taber	445	22- 5-22
Oldham Albert	Luscar	579	11- 8-24
Oliver, Edward	Taber	584	14-11-24
Ottewell, Cedric P.	Clover Bar	620	21-11-25
O'Neill, Michael	Nordegg	748	9- 8-29
Ordge, John	Donalda	80	25- 7-32
Owens, John	Midlandvale	177	4- 9-34
Oswald, Joseph	Drumheller	178	10- 9-34
O'Brien Anthony	Gadsby	244	10- 3-37
Oxbury, John	Beynon	327	26- 8-38
Olesky, Samuel P.	Mountain Park	77	14- 7-44
Otrasek, Michael	Aerial	93	20- 7-44
Ondrik, John F.	Coleman	16	16- 7-45
O'Neill, Henry J.	Nordegg	28	20- 7-45
*Phillips, Chas.	Frank	14	30-12-02
Prentice, John	Virginia, U.S.A.	67	1- 2-09
Powell, Albert E.	Lundbreck	71	4- 2-09
Picton, William	Frank	78	8- 7-09
Pounder, George	Pincher Creek	84	22- 9-09
Parker, Levi	Cardiff	100	18- 1-10
Pickering, G.	Taber	104	25- 2-10
Parry, Thomas	Hillcrest	119	21- 6-10
Park, Stewart G.	Lethbridge	121	26- 6-10
Patterson, John	Hillcrest	126	17-12-10
Picton Daniel	Aerial	178	23-11-11
Park, William	Lethbridge	194	13- 7-12
Parkes, John T.	Lethbridge	236	31- 7-13
Park, Alex. C.	Lethbridge	25	8- 4-14
Porteous, Alexander	Hillcrest	36	26- 5-14
Purdy, Stearns J.	Lundbreck	37	28- 5-14
Parker, Joseph	Drumheller	47	25-11-14
Puckett, Owen L.	Robb	53	27-11-14
*Pavier, Evan	Coleman	91	27- 8-15
Price, Alfred	Montana, U.S.A.	103	4- 1-16
Pitt, Arthur J.	Coleman	108	10- 7-16
Phillips, David	Commerce	110	10- 7-16
Price, John	Mountain Park	116	10- 7-16

List of Names of Holders of Third Class Certificates—Continued

Name	Address	Cert. No.	Date of Issue
Pratt, Philip	Lovettville	117	10- 7-16
Paterson, Patrick	Evansburg	139	3-10-16
Padgett, Albert	Bellevue	177	17- 7-17
Poole, Alexander	Drumheller	241	16- 5-19
Prescott, William	Hillcrest	249	26- 6-19
Painter J. A.	Mountain Park	361	26- 7-20
Parkinson, Harry	Coleman	465	31- 7-22
Pearson, Francis	Hillcrest	468	31- 7-22
Phipps, Mathew J.	Mountain Park	494	1- 9-22
Price, John	Mountain Park	497	1-11-22
Patterson, William	Blairmore	515	17- 8-23
Parry, Robert	Coleman	546	15- 9-23
Poxon, Wilfred	Carbon	555	15-11-23
Peters, Frederick C.	Wayne	582	25- 9-24
Price, Richard	Hillcrest	590	21- 4-25
Pickard, Joseph	Edmonton	592	20- 7-25
Perry, James E.	Beynon	612	25- 7-25
Powell, John E.	Newcastle Mine P.O.	700	22- 8-28
Piper, John J.	Canmore	716	7- 6-29
Paton, George	Delburne	727	7- 6-29
Phillips W. J.	Saunders	733	17- 6-29
Page, Joseph	Drumheller	741	19- 6-29
Peters, Wm. E.	Blairmore	762	4- 6-30
Park, Angus	Edmonton	773	4- 6-30
Patterson, S. E.	Blairmore	778	10- 6-30
Pascoe, Thomas	Mountain Park	796	14- 7-30
Potter, Harry	Drumheller	797	8- 8-30
Price, Stanley R.	Blairmore	9	13- 7-31
Pettigrew, Robert	Coleman	20	13- 7-31
Phillips, W. T.	Castor	99	10- 6-33
Popovich, Mike	Champlon	112	3- 7-33
Pike, Sidney G.	Drumheller	119	24- 7-33
Phillips, Alfred J.	Coleman	146	5- 6-34
*Poholka, Steve	Edmonton	149	9- 6-34
Perini, John	Lethbridge	153	9- 6-34
Parker, Jack	Cardiff	165	27- 6-34
Potter, I. N.	Nacmine	167	26- 7-34
Perini Angelo	Granlea	194	10- 6-35
Price, Wm. T.	Edmonton	195	14- 6-35
Peta, Julius	Hardieville	225	4- 6-36
Purdy, Denzil	Lundbreck	237	4- 7-36
Passoli, E. L.	Vulcan	314	4- 7-38
Parry, Joseph	Mercoial	316	8- 7-38
Parobchak, F.	Carbondale	353	8- 6-39
Plesuk, William	Beverly	357	8- 6-39
Price, John C.	Coleman	377	4- 7-39
Petit, Jules A.	Newcastle	71	14- 7-44
Petrosky, M. J.	Coleman	96	20- 7-44
Peta, Frank	Lethbridge	104	24-10-44
Quigley, Daniel H.	Drumheller	157	14- 7-11
Queen, Andrew M.	Lethbridge	228	26-12-12
Quin, James	East Coulee	66	25- 6-32
Rice, Awrey	Edmonton	48	18- 4-05
Rawson, Thomas S.	Frank	1	20-12-05
Rose, Walter	Lundbreck	54	25- 8-08
Roberts, William	Strathcona	95	3-12-09
Robinson, John H.	Hillcrest	106	31- 5-10
Rowbotham, William H.	British Columbia	116	6- 6-10
Roberts E.	Rosedale	118	20- 6-10
Richardson, Alfred	Lethbridge	125	17-12-10
Richards, George	Coleman	137	31-12-10
Roberts, John	Cadomin	140	6- 4-11
Reid, James	Canmore	158	24- 7-11
Richards, Evan	Edmonton	162	17-11-11
Richards, Samuel	Bellevue	175	17-11-11
Rawlinson, Rowland	Cadomin	182	28-11-11
Rayner, Frederick	Frank	188	8-12-11
Radford, James	Bellevue	200	22- 7-12
Rae, John	Coleman	242	31- 7-13
Rankin, William	Hosmer, B.C.	4	28-11-13
Rebar, Mike	Hardieville	19	18- 3-14
Rees, Daniel	Bellevue	56	27-11-14
Russell, Arthur	Standard	59	5-12-14
Russell, John	Ardley	67	20- 1-15
Rees, Gomer	Beverly	96	12-10-15
Robinson, Edward	Chilliwack, B.C.	101	28-10-15
Roberts David O.	Cardiff	106	7- 7-16
Robert, David C.	Coleman	113	10- 7-16
Randall, David	Coleman	191	10-10-17
Reid, Edward	Drumheller	206	1- 6-18
Redpath, James	Wayne	208	1- 6-18
Reid, Samuel	Brule	211	1- 6-18
*Richards, Edward	Drumheller	271	26- 6-19
Rollingson, John	Lethbridge	280	26- 6-19

List of Names of Holders of Third Class Certificates—Continued

Name	Address	Cert. No.	Date of Issue
Ruscoe, Richard	Halkirk	282	26- 6-19
Roberts, Evan	Wayne	318	26- 7-20
Royle, Edward	Blairmore	323	26- 7-20
Robertson, W. H.	Coalhurst	333	26- 7-20
Rappel, Thomas	Canmore	337	26- 7-20
Rappel, A. J.	Calgary	355	26- 7-20
Richards, John C.	Coleman	386	1- 8-21
Richards, Thomas	Wayne	392	1- 8-21
Rees, William H.	Lethbridge	435	29- 8-21
Rowley, Arthur	Calgary	455	31- 7-22
Ridgeway, Leonard J.	Coalhurst	457	31- 7-22
Roberts, Robert	Wayne	464	31- 7-22
Richards, Harold	Hillcrest	484	1- 8-22
Roberts, Lemuel	Wayne	488	1- 8-22
Richards, M. C. Russell	Blairmore	509	17- 5-23
Rutherford, Leslie D.	Saunders West	565	6- 5-24
Rutherford, Wilson	Drumheller	583	30-10-24
Roome, Richard	Mountain Park	588	24- 1-25
Rhodes, William B.	Lundbreck	625	26- 7-26
Robertson, Alexander	Lethbridge	633	30- 7-26
Ramage, John	Coalhurst	648	12- 8-27
Ray, William J.	Hillcrest	669	22- 4-29
Rees, Ernest	Hillcrest	686	1- 8-28
Rochester, John J.	Carbon	689	1- 8-28
Rolfe, Emrys	British Columbia	691	16- 8-28
Russell, William C.	Drumheller	705	24-11-28
Rear, Albert E.	Corbin, B.C.	728	7- 6-29
Reid, Wm. P.	Lethbridge	732	17- 6-29
Radford, J. H.	Heisler	738	17- 6-29
Rogers, Benjamin	Canmore	753	5-11-29
Reed, John C.	Edmonton	779	10- 6-30
Raisbeck, A. B.	East Coulee	785	10- 6-30
Reynolds, Horace C.	Canmore	11	13- 7-31
Roberts, Simon	Cadomin	21	13- 7-31
Radocy, Isaac C.	Aerial	23	13- 7-31
Ratcliffe, Thomas	Drumheller	24	13- 7-31
Robertson, Duncan	Drumheller	47	26- 7-31
Russell, Robert	Alix	69	25- 6-32
Rees, Sandford	Mountain Park	81	28- 7-32
Rhodes, George	Champion	96	10- 6-33
Rees, Edward D.	Bellevue	105	15- 6-33
Raeder, William	Elkwater	110	15- 6-33
Ross, A. W.	Della	124	29- 7-33
Rozzolini, Albert	Raymond	126	29- 7-33
Radford James T.	Bellevue	132	15- 9-33
Richards, Lorenzo	Coleman	142	5- 6-34
Riordan, Leo	Drumheller	173	13- 8-34
Ruffee, Harry G.	Nacmine	204	9- 7-35
Richardson, E. H.	East Coulee	205	17- 7-35
Raisbeck, Robt. M.	Drumheller	213	12- 8-35
Raisbeck, James	East Coulee	215	29- 8-35
Rota, Steve	Champion	219	29- 8-35
Rebar, George	Lethbridge	229	22- 6-36
Roberts, Horace	Drumheller	251	11- 6-37
Rees, Daniel	East Coulee	273	27- 8-37
Richards, Lorenzo C.	Coleman	286	7- 6-38
Riva, Joseph	Canmore	288	8- 6-38
Remillard, Omer V.	Castor	304	22- 6-38
Raisbeck, Luke	East Coulee	330	7- 9-38
Ryning, James W.	Rowley	383	4- 7-39
Reissig, Erich	Willow Creek	388	12- 8-39
Robbins, John	Drumheller	390	17- 8-39
Richardson John	Camrose	393	1- 9-39
Reynolds, Arthur E. V.	Mercoal	404	10-11-39
Roberts, William	Rosedale	11	4- 9-40
Richards, Clifford	Hillcrest	17	11- 7-41
Roome, Herbert	Mountain Park	44	17- 7-42
Rae, Alex.	Blairmore	47	18- 7-42
Roome, John	Mountain Park	49	26- 7-42
Radocy, Kenneth	Aerial	70	14- 7-44
Runge, William	Rosalind	34	26- 7-45
Rhodes, Harole	Robb	36	1- 8-45
Scott, Robert	Lethbridge	6	19-12-98
Scott, Hugh	Lethbridge	8	5- 6-99
Sedlock, Joseph	Canmore	22	25- 6-03
Smith, Robert	Canmore	32	5-12-04
Smith, Hugh	Bellevue	35	5-12-04
Stott, John	Lethbridge	38	23-12-04
Spencer, W. J.	Bankhead	51	6- 7-05
Salmood, James M.	Bankhead	6	20-12-05
Sparrow, Edwin	Tawatinaw	2	20-12-05
Smith, Ralph	Canmore	3	30- 5-06
Singleton, Robert	Lundbreck	47	29- 5-08
Schmidt O. P.	Edmonton	44	1- 2-08
Sihvon, William	East Coulee	27	17- 5-07

List of Names of Holders of Third Class Certificates—Continued

Name	Address	Cert. No.	Date of Issue
Scott, Andrew N.	Luscar	28	23- 5-07
Smith, A. J. P.	Calgary	103	21- 2-10
Shaw, Thomas J.	Hinton	113	3- 6-10
Scott, Alexander	Pocahontas	185	28-11-11
Sheratt, Owen Sr.	Coleman	199	13- 7-12
Smith, Thomas	Hillcrest	216	1-11-12
Stobbs, Joseph	Diamond City	217	5-11-12
Shaw, Eli	Canmore	229	30- 4-13
Stephenson, Thomas	Bellevue	230	7- 4-13
Stott, John	Lethbridge (duplicate)	231	7- 4-13
Stephenson, Joseph	Commerce	232	30- 4-13
Sandino, Joseph	Drumheller	238	31- 7-13
Steele, John W.	Lethbridge	17	16- 3-14
Severns, Matthew	Edmonton	42	8- 9-14
Spencer, Murray A.	Brule	43	18- 9-14
Snarey, George	Beynon	62	5-12-14
Sinclair, James	Drumheller	68	22- 1-15
Smith, John	Blairmore	94	1- 9-15
Smith, T. Edwin	Montana, U.S.A.	130	26- 7-16
Strickland, William	Exansburg	145	5- 7-17
Stratton, James M.	Taber	181	25- 7-17
Shaw, Tom	Bellevue	202	18- 4-18
Sorro, Christopher	Blairmore	203	18- 4-18
Steen, Herman	Hanna	277	26- 6-19
*Scott, Frederick G.	Nordegg	287	2- 9-19
*Sippell, Joseph	Drumheller	295	1-12-19
Stewart, James	Lethbridge	305	26- 7-20
Smith, Thomas	Coleman	307	26- 7-20
Saunt, James	Drumheller	309	26- 7-20
Steele, Francis M.	Calgary	319	26- 7-20
Stratton, A. T.	Medicine Hat	351	26- 7-20
Serrie, John	Taber	353	26- 7-20
*Sutherland, E. S.	Beverly	395	1- 8-21
Scott, Robert	Nordegg	399	1- 8-21
Shaw, William G.	Kimberley	409	1- 8-21
Shaw, Joseph H.	Kimberley	416	1- 8-21
Shaw, John H.	Nordegg	426	1- 8-21
Stene, David	Edmonton	430	29- 8-21
Strachan, John	Fernie, B.C.	437	29- 8-21
Sneddon, Thomas	Taber	444	3- 4-22
Shepperd, Geo. E.	Wayne	477	1- 8-22
Speaker, Pete A.	Calgary	489	1- 9-22
Smith, Andrew A.	Drumheller	522	17- 8-23
Shevels, John	Bellevue	523	17- 8-23
Smith, Sidney L.	Drumheller	552	1-11-23
*Studholme, John H.	Dinant	559	18-12-23
Simmons, Efner W.	Forestburg	611	25- 7-25
Stanley, Henry	Nacmine	615	1- 8-25
Severns, Matthew	Valier, Mont. (duplicate)	621	11- 5-26
Steward, Frederick G.	Drumheller	624	26- 7-26
Shearer, Peter	Cadomin	640	22- 9-26
Smith, Terence	Edmonton	646	1- 8-27
Stewart, George W.	Nordegg	667	16- 1-28
Shandruk, Henry K.	Edmonton	695	16- 8-28
Steven, Robert	Banff	701	22- 8-28
Smith, Peter	Coleman	718	7- 6-29
Scott, J. D.	Rosedale	722	7- 6-29
Snow, Percy E.	Lethbridge	729	7- 6-29
Strang, David	Mountain Park	746	23- 7-29
Shearer, J. C.	Rosedale	749	9- 8-29
Sherwood, Henry R.	Canmore	751	8- 8-29
Stevenson, Robert	Drumheller	757	25- 2-30
Smillie, Walter	Evansburg	772	4- 6-30
Sutherland, S. R.	Bellevue	782	10- 6-30
Sinoski, Mike	Edmonton	791	14- 6-30
Stewart, R. E.	Shaughnessy	802	18-10-30
Stene, Alexander	Cadomin	10	13- 7-31
Stanko, Martin	Drumheller	13	13- 7-31
Smith, John A.	Cadomin	31	13- 7-31
Simons, B. C.	Bellevue	36	26- 7-31
Saunders, Herbert A.	Cardiff	76	2- 7-32
Sward, Henry	Rose Lynn	104	10- 6-33
Schlender, Otto	Trochu	118	6- 7-33
Smillie, John	Drinnan	152	9- 6-34
Sprela, Martin	Willow Creek	163	19- 6-34
Schneider, Nick	Dimsdale	197	28- 6-35
Streich, Paul	Ardley	202	8- 7-35
Simpson, Frank	Nacmine	206	22- 7-35
Smith, James	Wayne	211	10- 8-35
Stevenson, Morris	Drumheller	218	25- 9-35
Shaw, Robert	Coleman	226	22- 6-36
Sinoski, Steve	Edmonton	252	11- 6-37
Sarsfield, William	East Coulee	273	27- 8-37
Stewart, Jas. M. Jr.	Nordegg	281	7- 3-38

List of Names of Holders of Third Class Certificates—Continued

Name	Address	Cert. No.	Date of Issue
Sheridan, Daniel	Lacombe	296	11- 6-38
Simpson, Edward	Edmonton	300	22- 6-38
Schymizek, John	Bright Bank	302	22- 6-38
Swan, Harry	Priddis	307	22- 6-38
Sirko, Tibor	Rosedale Station	319	21- 7-38
Stratton, Andrew T.	Redcliff (duplicate)	329	7- 9-38
Smith, Harry	Drumheller	338	21-10-38
Scarpino, Eugene M.	Rosedale	389	14- 8-39
Swanston, Matthew	East Coulee	392	1- 9-39
Smith, Charles E.	Rosebud	396	12- 9-39
Steen, Alf C.	Rosedale Station	398	16- 9-39
Samis, Kenneth E.	Namoo	402	18-10-39
Schnepf, Karl J.	Rosebud	6	3- 8-40
Smith, James	Nordeg	9	3- 8-40
Staite, Albert E.	Trochu	56	20- 7-43
Semeniuk, Steve	Shaughnessy	58	20- 7-43
Surrendi, Nick	Wayne	73	14- 7-44
Stene, Wm. V.	Cadomin	88	17- 7-44
Sladek, Anton, Jr.	Rosedale	90	18- 7-44
Shephard, W. L.	East Coulee	92	20- 7-44
Simla, Joe	Coleman	10	16- 7-45
Shellian, Andy F.	Canmore	11	16- 7-45
Stratton, Robert	Langford Park	22	17- 7-45
Strecker, John	Rosedale	29	20- 7-45
Stocco, Reno	Drumheller	31	23- 7-45
Taylor, William	Lethbridge	10	16- 4-01
Turner, Samuel H.	Frank	21	25- 6-03
*Thomas, David	Bankhead	31	5-12-04
Tonge, Thomas	Lundbreck	5	30- 5-06
Thompson, Thos.	Lundbreck	16	3- 1-07
*Teppo, Herman	Bellevue	19	3- 1-07
Turner, Samuel H.	Frank (duplicate)	22	8- 5-07
*Taylor, Thos.	Lundbreck	30	23- 5-07
Thomas, John J.	Frank	74	21- 4-09
Thompson, Thos.	Coleman	93	29-11-09
*Thomas, Jos. D.	Nacmine	81	25- 8-09
Thompson, Thomas W.	Bankhead	161	17-11-11
Thompson, Joseph	Coleman	165	17-11-11
Thomas, Isaac	Coleman	204	27- 7-12
Tully, Thomas	Fernie, B.C.	215	1-11-12
Turner, William	Hillcrest	244	31- 7-13
Thomas, John B.	Edmonton	46	19-11-14
Thomson, Roger A.	Lovettville	66	22-12-14
Thomson, David	Lovettville	82	19- 8-15
Tennant, Robert	Drumheller	84	19- 8-15
*Troman, Samuel	Lethbridge	87	26- 8-15
Turner, Leonard	Nordeg	125	19- 7-16
*Thom, George	Pocahontas	142	12-12-16
Tennant, John	Lethbridge	165	10- 7-17
Terris, Andrew	Nordeg	170	17- 7-17
Tennant, William G.	Lethbridge	228	8- 6-18
Tisdale, James R.	Winnipeg	231	8- 6-18
Thomason, Charles	Blairmore	234	14- 6-18
Talbot, William	Drumheller	235	22- 6-18
Thomson, James	Beverly	425	1- 8-21
Thomson, George H.	Lethbridge	433	29- 8-21
Thompson, Andrew	Aerial	267	26- 6-19
Thackray, Fred	Lethbridge	281	26- 6-19
Travis, Joseph	Bankhead	303	26- 7-20
*Terris, Chapen	Saunders	429	1- 8-21
Thornhill, John E.	Coalhurst	482	1- 8-22
Tannucci, Joseph	Brule	485	1- 8-22
Tilley, John C.	Bellevue	511	30- 6-23
Taylor, William	Midlandvale	514	17- 8-23
Turner, William H.	Blairmore	525	17- 8-23
Tucker, John M.	Entwistle	528	17- 8-23
Talbot, Walter J.	Clover Bar	533	17- 8-23
Trentham, Harry	Ghost Pine	536	17- 8-23
Teasdale, J. R. W.	Drumheller	540	1- 9-23
Tyldsley, Albert	Beverly	545	1- 9-23
Thomson, Walter	Clover Bar	628	26- 7-26
Taylor, John	Drumheller	649	1- 8-27
Tompkins, David F. R.	Foothills	659	1- 9-27
Thomson, William	Edmonton	683	1- 8-28
Thomas, Edward J.	Drumheller	706	24-11-28
Thomson, John	Edmonton	758	4- 6-30
Thirlwell, Wm.	Robb	4	20- 2-31
Tyrer, Edward	Lethbridge	5	13- 7-31
Thomas, William	Luscar	38	26- 7-31
Thomas, David S.	Midlandvale	55	21- 3-32
Tyrer, Harold	Lethbridge	70	25- 6-32
Taylor, Robert	Calgary	85	24- 8-32
Tonge, Reginald	Blairmore	90	30- 9-32
Thomson, Alexander	Edmonton	141	5- 6-34

List of Names of Holders of Third Class Certificates—Continued

Name	Address	Cert. No.	Date of Issue
Taylor, Edward	Groton	154	9- 6-34
Tiffin, Richard	Coleman	188	10- 6-35
Thomas, David R.	Ryley	241	6-11-36
Tiberghiem, A. J.	Coleman	264	23- 6-37
Turner, William A.	Halcourt	262	23- 6-37
Thompson, John W.	Drumheller	274	1- 9-37
Treventhin, Mark	Wayne	305	22- 6-38
Tennant, James	Mountain Park	358	8- 6-39
Thomson, John D.	Drinnan	360	8- 6-39
Thomas, David R.	Luscar	379	4- 7-39
Tinsley, Albert J.	Rosedale Station	381	4- 7-39
Tiberg, Arik N.	Blairmore	38	17- 7-42
Topak, Peter	Coleman	55	14- 7-43
Tait, Burton	Edmonton	1	16- 7-45
Tomsich, John	Mercoal	18	16- 7-45
Tamborini, Bruno	Bellevue	20	16- 7-45
Uley, Frederick W.	Bellevue	250	26- 6-19
Unsworth, Robert J.	Scapa	704	24-11-28
Urwin, Henry	Canmore	123	29- 7-33
Unsworth, George	Scapa	399	12-10-39
Urwin, James	Coleman	95	28- 7-44
Vola, Serafino	Canmore	63	1- 2-09
Vaselenak, Michael P.	Lethbridge	159	10- 7-17
Vickers, William A.	Taber	443	10- 3-22
Villard, Henry	Wayne	450	31- 7-22
Vannucci, Luigi	Brule	629	26- 7-26
Vining, Samuel	Luscar	635	30- 7-26
Vivyrka, John	Mercoal	44	26- 7-31
Van Schoorl, August	Coleman	228	22- 6-36
Valentini, Marcelli	Bow Island	309	22- 6-38
Vitaly, Mike L.	Namoo	351	8- 6-39
Vanbesien, Jules	Champion	366	22- 6-39
Van Duncombe, Walter	Taber	394	12- 9-39
Vasek, Louis M.	Coleman	6	16- 7-45
Watkins, W. E.	Champion	1	14-11-98
Wilson, John	Canmore	2	15-11-98
Watkins, John W.	Canmore	3	15-11-98
Waite, Archibald	Taber	11	6- 7-03
Wilson, Wm. Geo.	Coleman	3	20-12-05
Watters, John	Bankhead	5	20-12-05
Webb, Jas. E.	Canmore	42	8- 4-05
Welsh, Wm. R.	Lundbreck	9	3- 1-07
*Wright, John S.	Canmore	12	3- 1-07
Wrigley, Walter	Cadomin	37	10- 1-08
Willmott, William	Canmore	38	10- 1-08
Watters, A. G.	Banff	49	29- 5-08
Weston, Thomas	Edmonton	73	7- 4-09
White, Harry	Hillcrest	90	29-11-09
Williams, Walter E.	Edmonton	213	31-10-12
Williams, John J.	Edmonton	223	25-11-12
Whitefield, Isaac	Coalhurst	15	10- 3-14
Williams, John T.	Bellevue	33	23- 5-14
Wesledge, William	Nanaimo, B.C.	58	5-12-14
Wardrop, James	Canmore	72	16- 2-15
Worthington, Thomas	Lethbridge	92	1- 9-15
Wallwork, William	Taber	118	10- 7-16
Watkins, James M.	Taber	128	26- 7-16
Williams, Albert	Edmonton	138	25- 9-16
Wilcox, William J.	Edson	140	11-11-16
Willets, Frederick	Lethbridge	162	10- 7-17
Wilson, Alexander	Midlandvale	169	17- 7-17
Wolstoncroft, Robert	Commerce	175	17- 7-17
Watson, Adam G.	Calgary	215	1- 6-18
Wheatcroft, Fred Jr.	Drumheller	225	8- 6-18
White, John M.	Lethbridge	233	14- 6-18
Warren, Michael	Edmonton	304	26- 7-20
Womersley, Alfred	Redcliff	316	26- 7-20
Wright, S. P. T.	Coalhurst	336	26- 7-20
Walker, H. M.	Bellevue	368	26- 7-20
Watson, James	Edmonton	378	1- 8-21
Woollett, Charles	Edmonton	379	1- 8-21
Walker, Charles C.	Wayne	385	1- 8-21
White, William	Hillcrest	388	1- 8-21
White, Alfred	Hillcrest	389	1- 8-21
Wheatcroft, George L.	Wayne	394	1- 8-21
Wilkie, John	Sheerness	405	1- 8-21
White, Robert	Nordeg	411	1- 8-21
White, William	Coleman	427	1- 8-21
Whyte, William	Lethbridge	446	16- 6-22
Williamson, John B.	Cadomin	473	31- 7-22
Wood, Matthew	Bellevue	508	17- 5-23
Wylie, James	Commerce	520	17- 8-23
Weaver, William	Natal, B.C.	530	17- 8-23
Whitelaw, William	Blairmore	532	17- 8-23

THE MINES BRANCH

List of Names of Holders of Third Class Certificates—Continued

Name	Address	Cert. No.	Date of Issue
Whelan, Charles J.	Newcastle P.O.	556	4-12-23
Williamson, David S.	Camrose	558	18-12-23
Waller, Herbert	Natal, B.C.	562	28-12-23
Willets, Norman	Hillcrest	571	24-7-24
Williams, Hugh	Nordeg	577	1-8-24
Wilton-Clark, Harry	Bellevue	594	20-7-25
Wheatley, Frank M.	Banff	599	20-7-25
Wiswell, Byron	Blairmore	637	6-8-26
Wilson, Samuel	Drumheller	639	20-8-26
Whittaker, William C.	Coal Valley	643	25-5-27
Westcott, Henry M.	Wayne	651	1-8-27
Warneboldt, Julius	Chilliwack, B.C.	658	1-9-27
Withington, Harry E.	Newcastle P.O.	664	14-10-27
White, Harry J.	Coalhurst	677	19-7-28
Woolney, Karl	Bellevue	681	1-8-28
Wiltse, Donald H.	Edmonton	688	1-8-28
Whitehead, J. W.	England	712	7-6-29
Williams, L. A.	Edmonton	768	4-6-30
Womersley, E.	Blairmore	783	10-6-30
Williams, H. A.	Mountain Park	792	3-7-30
White, Michael	Drumheller	806	29-10-30
Williams, Walter	Alix	29	13-7-31
Walsh, James C.	Bellevue	34	13-7-31
Williams, D. J.	Mountain Park	35	13-7-31
Watkin, Geo. E.	Bittern Lake	59	2-6-32
Walton, Geo. A.	Forestburg	67	25-6-32
Watson, David	Leduc	77	11-7-32
White, George	Nordeg	83	24-8-32
Williams, Wm.	Barnwell	87	23-9-32
Woodward, Clarence	Bellevue	94	16-2-33
Wilkinson, James	Bragg Creek	116	3-7-33
Watters, David G.	Drumheller	120	29-7-33
Wiltse, Floyd N.	Forestburg	125	29-7-33
Wilson, Charles	Lethbridge	130	8-9-33
Williams, John	Barnwell	161	16-6-34
White, John	Nordeg	210	10-8-35
Wright, S. P. T.	East Coulee	243	1-2-37
Whyte, David	Pipestone Creek	253	11-6-37
Waddington, Daniel M.	Coleman	259	23-6-37
Wheatley, James W.	Banff	276	4-10-37
Wheeler, Albert	Clyde	282	24-3-38
Wolff, Alfred	Willow Creek	387	12-8-39
Watters, John J.	Edmonton	12	19-9-40
Wakaruk (Walker), John J.	Newcastle	48	20-7-42
White, James B.	Nordeg	102	24-10-44
White, Mike	Wayne	27	20-7-45
Young, Thomas	Taber	57	11-1-09
Young, Samuel	Cardiff	101	18-1-10
Yates, James	Coleman	504	15-2-23
Young, David B.	Picture Butte	581	25-9-24
Young, Robert	Newcastle P.O.	603	25-7-25
Young, Robert	Newcastle P.O. (duplicate)	788	14-6-30
Young, Albert	Foreman	159	16-6-34
Young, John	Drumheller	214	29-8-35
Young, Warren	Wayne	216	30-8-35
Young, Charles	Newcastle	278	10-11-37
Yarham, John I.	Forestburg	321	8-8-38
Yorko, Simon A.	Shaughnessy	345	8-6-39
Yard, Lloyd Geo.	Trochu	373	22-6-39
Zak, Albert	Commerce	324	26-7-20
Zambo, Joseph	Aerial	292	10-6-38
Zaputit, Frank W.	Rosedale	397	12-9-39

*Deceased.

List of Names of Holders of Mine Surveyors' Certificates

Name	Address	Cert. No.	Date of Issue
Aspinall, Francis	Vancouver	1	7-8-15
Adam, William A.	Lethbridge	40	21-8-15
Ashburner, Edward	Medicine Hat	79	1-9-15
Allen, Peter	Wayne	109	23-11-15
Atkins, Cecil B.	Edmonton	162	17-7-23
Brown, John	Calgary	30	20-8-15
Billington, Edward E.	England	42	23-8-15
Bilyst, Jean	Calgary	73	1-9-15
*Black, Ernest D.	Nova Scotia	75	1-9-15
Baxter, Andrew W.	Calgary	119	23-11-15
Brown, Hugh R.	Carbon	125	10-7-16
Brown, Thomas	Edmonton	133	17-11-17
Burgess, Wilfred D.	Trail, B.C.	169	18-12-23
Coulthard, Robert W.	Toronto, Ont.	20	7-8-15
Church, James A. H.	Nova Scotia	21	7-8-15
Charlesworth, Lionel C.	Edmonton	22	7-8-15

List of Names of Holders of Mine Surveyors' Certificates—Continued

Name	Address	Cert. No.	Date of Issue
*Callander, Ira C.	Pocahontas	39	21- 8-15
Charbonnier, Jules	Blairmore	72	1- 9-15
*Cote, Jean L.	Edmonton	80	1- 9-15
Cautley, Reginald H.	Edmonton	81	1- 9-15
*Crowder, James	Blairmore	111	23-11-15
Cook, Arnold B.	Calgary	113	23-11-15
Cummin, Charles H.	Edmonton	135	3- 7-18
*Crowder, Harry	Drumheller	152	26- 7-20
Congdon, Milton H.	Blairmore	157	1- 8-21
Clement, Adolph L.	Cadomin	158	1- 8-21
Cameron, Alan E.	Edmonton	154	9- 3-21
Carthew, John T.	England	164	17- 7-23
Chavignaud, Louis G.	Hinton	165	17- 7-23
*Davidson, W. A.	Rosedale	7	7- 8-15
*Drinnan, Robert G.	Edmonton	8	7- 8-15
DeHart, Joseph B.	Lethbridge	45	23- 8-15
*Dougall, Ralph	Bankhead	49	23- 8-15
Drummond, Leonard E.	Edmonton	51	23- 8-15
Dunn, Alex. C.	Edmonton	55	23- 8-15
*Darbyshire, James	Drumheller	69	1- 9-15
Duggan, William H.	Foothills	84	1- 9-15
*Driscoll, Alfred	Edmonton	91	7- 9-15
Dennin, Frederick W.	England	100	9- 9-15
Davis, Alfred	Lethbridge	114	23-11-15
Daniell, G. W. B.	Nanaimo, B.C.	126	10- 7-16
Donaldson, C. S.	Lethbridge	151	26- 7-20
Dewis, Clifford S.	Canmore	163	1- 8-22
Drinnan, R. G. Jr.	Edmonton	181	8- 8-30
Dwarkin, L. M.	Coleman	2	30-10-41
Donaldson, Adam G.	Lethbridge	4	6- 8-43
Dutton, Joseph A.	Edmonton	3	30- 7-45
Elliott, Edward P.	Pocahontas	33	20- 8-15
Ellis, William	Three Hills	94	7- 9-15
*Evans, Daniel	Edmonton	123	29-12-15
Elliott, G. R.	Calgary	150	26- 7-20
*Fraser, Norman	Edmonton	15	7- 8-15
Foot, Robert G.	Coleman	54	23- 8-15
Finnie, Oswald S.	Ottawa	57	23- 8-15
Flint, William G.	Edmonton	76	1- 9-15
Fortner, Edward	Tennessee, U.S.A.	83	1- 9-15
*Fraser, A. T.	Edmonton	121	18-11-15
Foster, William	Robb	167	1- 9-23
French, Merritt H.	Calgary	3	22- 8-33
Fraser, Arthur A.	Coleman	8	2- 9-37
Green, Raoul	Calgary	70	1- 9-15
Gallon, Emile	France	89	7- 9-15
Gray, David	Washington, U.S.A.	110	23-11-15
*Gheur, Ernest	Nordeg	129	22- 2-17
Graham, A. E.	Coleman	168	15- 9-23
Gardner, H. H.	Coleman	180	23- 7-29
Hutchison, David	Hillcrest	29	20- 8-15
*Huntrods, E. S. F.	Taber	34	20- 8-15
*Hardie, W. D. L.	Lethbridge	50	23- 8-15
*Holden, Jas. O. E.	Drumheller	46	23- 8-15
*Hargreaves, James	Victoria, B.C.	52	23- 8-15
Hamilton, James F.	Lethbridge	56	23- 8-15
Henderson, Thomas R.	Scotland	67	1- 9-15
Hutchison, William	Hillcrest	68	1- 9-15
Hamilton, Robert	Three Hills	74	1- 9-15
Horne, Thomas	Edson	82	1- 9-15
*Harrison, Stephen	Lethbridge	85	1- 9-15
Hyde, Marcus L.	California	95	7- 9-15
*Hamilton, W. L.	Lethbridge	117	23-11-15
Hamilton, Allan	Drumheller	131	7- 7-17
Hall, W. E. G.	Blairmore	143	2- 7-19
Hetherington, W. B.	British Columbia	144	9- 7-19
Higgins, Alexander	Calgary	145	15- 7-19
Hollies, R. T.	Edmonton	156	1- 8-21
Hunter, A. B.	Edmonton	153	9- 3-21
Howells, N.	Wayne	160	3-11-21
Hnatyshyn, Andrew C.	Luscar	171	24- 7-24
Hughes, Edward	Mayerthorpe	174	25- 9-24
Hewitt, Herbert E.	Blairmore	6	7- 8-36
Hamilton, Duncan C.	Drumheller	10	1-10-38
Hodson, Thomas H.	Nordeg	1	16- 7-45
Jones, Samuel A.	Nanaimo, B.C.	26	19- 8-15
Jones, David	Edmonton	32	20- 8-15
*Johnson, Moses	Blairmore	130	7- 7-17
Jones, John R. B.	Hinton	5	1- 8-36
*Kellock, George	Coleman	105	23-11-15
*Kellett, Walton	Lethbridge	47	23- 8-15
*Knight, R. R.	Edmonton	96	9- 9-15
Knight, Sidney	Ottawa	122	3-12-15
Kidd, G. L. S.	Drumheller	132	10-10-17
Kelly, O. G.	Carbondale	2	29- 7-33
*Livingstone, Robert	Lethbridge	9	7- 8-15

List of Names of Holders of Mine Surveyors' Certificates—Continued

Name	Address	Cert. No.	Date of Issue
*Lee, Robert	Estevan, Sask.	64	1- 9-15
Lavoie G. A.	United States	44	23- 8-15
Lyster, H. M.	Toronto, Ont.	77	1- 9-15
*Leblanc, Emile	Wayne	107	23-11-15
Lindoe, Luke	Coleman	136	3- 7-18
Lewis, John W.	Mountain Park	159	10-10-21
Livingstone, Robt. D.	Lethbridge	11	25- 7-39
*Morris, J. J.	Canmore	14	7- 8-15
Morris, R. H.	Virginia, U.S.A.	17	7- 8-15
Milne, M. C.	Virginia, U.S.A.	78	1- 9-15
*Mills, Harry W.	Bankhead	92	7- 9-15
Maxwell, W.	Westville, N.S.	93	7- 9-15
Millar, A. A.	Edmonton	97	9- 9-15
Meldrum, Wm.	Lethbridge	98	9- 9-15
Moodie, K. S.	Vancouver	101	9- 9-15
Marshall, J. W.	Evansburg	106	23-11-15
*Marsh, John	Taber	124	4- 4-16
Morgan, O.	Saunders	148	26- 7-20
Moore, H. D.	Edmonton	149	26- 7-20
Millen John	Trail, B.C.	172	24- 7-24
Melnyk, N.	Cadomin	182	10- 9-30
Morgan, T. E.	Hillcrest	183	29-10-30
Morris, William	Edmonton	12	1- 8-39
Morgan, Evan	Blairmore	3	14- 7-43
McNeill, W. F.	Calgary	6	7- 8-15
McLeod, John A.	Cadomin	35	20- 8-15
McLenhan, J. A.	Coalspur	37	21- 8-15
Macaulay, A. G.	Midlandvale	41	23- 8-15
Macaulay, D. A.	Drumheller	60	31- 8-15
McCulloch, James	Vancouver, B.C.	104	23-11-15
McDonald, Duncan	Drumheller	118	23-11-15
*McVicar, Samuel	Beaver Mines	120	23-11-15
*McDonald, John R.	Edmonton	128	22- 2-17
McMullen, Arthur	Nordegg	1	26- 7-31
O'Donnell, Thomas	Rosedale	102	9- 9-15
Pitcher, Norman C.	Edmonton	10	7- 1-15
*Parker, John L.	Canmore	11	7- 8-15
Pickles, Wm.	Edmonton	24	18- 8-15
*Puckett, O. L.	Robb	31	20- 8-15
Ponton, G. M.	Calgary	63	1- 9-15
Piard, Marc	Blairmore	88	7- 9-15
Powell, A. E.	Lundbreck	108	23-11-15
Pascoe, Thomas	Mountain Park	178	1- 8-27
Pratt, John	Coleman	4	22- 7-35
Quigley, Daniel H.	Coalhurst	142	2- 7-19
Reid, J. C.	Oklahoma, U.S.A.	12	7- 8-15
Richards, J. A.	Edmonton	13	7- 8-15
*Robertson, J. D.	Edmonton	23	7- 8-15
Robertson, J.	Drumheller	61	1- 9-15
Reid, A. H.	Oklahoma, U.S.A.	62	1- 9-15
Robert, L. P.	Blairmore	65	1- 9-15
Raisbeck, Luke	Drumheller	103	23-11-15
Ritchie, D. W.	Edmonton	134	28- 6-18
Robinson, W. E.	Coleman	139	11- 7-18
Riddell, J. G.	Coleman	147	26- 7-21
Richards, M. C. Russell	Blairmore	166	15- 9-23
*Richards, C. C.	Calgary	43	23- 8-15
Rhynas, Melville G.	Pincher Creek	9	1-11-37
*Shaw, William	Edmonton	25	19- 8-15
*Stockett, Lewis	Vancouver	2	7- 8-15
Stirling, John T.	Scotland	19	7- 8-15
*Smith, Frank B.	Edmonton	3	7- 8-15
Scott, A. N.	Luscar	36	20- 8-15
Shanks John	Nordegg	58	28- 8-15
Stevenson, Wm.	Hillcrest	59	31- 8-15
Stevens, Leonard C.	Edmonton	66	1- 9-15
Sutherland, C. C.	Seattle, Wash.	86	3- 9-15
Stevenson, J.	Scotland	116	23-11-15
Sherwin, P. M.	Frank	127	22- 1-17
Smith, T. E.	Montana, U.S.A.	137	3- 7-18
Steele, F. M.	Calgary	146	23- 3-20
Sparks, H. E.	Ontario	155	1- 8-21
Shanks, David	Nordegg	161	3- 4-22
Shaw, Norman	Edmonton	170	16- 7-24
Stewart, R. T.	Edmonton	173	11- 8-24
Scott, Andrew	Luscar	2	16- 7-45
Thorne, B. L.	Calgary	18	7- 8-15
*Thornton, Norman M.	Edmonton	16	7- 8-15
*Thomas, Jos. D.	Nacmine	115	23-11-15
*Turner, John H.	Coalhurst	141	2- 7-19
Utey, Frederick W.	Bellevue	177	26- 7-26
*Whiteside, O. E. S.	Coleman	27	19- 8-15
Williams A. E.	Saunders	38	21- 8-15
*Wain, W. Holt	Canmore	4	7- 8-15

List of Names of Holders of Mine Surveyors' Certificates—Continued

Name	Address	Cert. No.	Date of Issue
*Wilson, D. G.	Bankhead	5	7-8-15
Williams, T. B.	Calgary	48	23-8-15
Watson, R. H.	Edmonton	53	23-8-15
*Williams, W. P.	Bellevue	71	1-9-15
Watters, John	Banff	87	3-9-15
Wilson, W. R.	Fernie, B.C.	90	7-9-15
*Wark, Samuel D.	Evansburg	99	9-9-15
Wheeler, James S.	Calgary	112	23-11-15
Wright, Edwin	Fernie, B.C.	138	11-7-18
Wilton-Clark, Harry	Coleman	175	20-7-25
Wilson, William	Drumheller	176	14-8-25
Whittaker, William C.	Coal Valley	179	6-8-27
Whigham-Teasdale, Jas. R.	Drumheller	7	18-8-37
Wilson, Andrew	Rosedale Station	1	19-7-41
*Young, W. H.	Calgary	28	19-8-15

*Deceased.

List of Names of Holders of Mine Electricians' Certificates

Anderson, Julius	Wayne	87	10-9-40
Angelo, Steve	Drumheller	88	10-9-40
Arndt, Joseph H.	Drumheller	61	30-9-39
Biamonte, Antonio	Clover Bar	1	25-9-39
Brotherston, Robert A.	Clover Bar	2	25-9-39
Broderick, Gldeon	Canmore	14	30-9-39
Blas, Emile	Blairmore	28	30-9-39
Blake, Gwilym	Blairmore	29	30-9-39
Bell, Harold	Lethbridge	39	30-9-39
Berlando, Tully	Aerial	49	30-9-39
Buzenus, Christopher	Drumheller	51	30-9-39
Belley, Thomas	Mountain Park	76	24-9-39
Brown, Hugh R.	Carbon	95	12-9-40
Bucholtz, Robert C.	Redcliff	98	16-9-40
Barrell, William	Ardley	101	14-11-40
Burch, George	Shaughnessy	107	29-9-41
Beaton, Geo. M.	Luscar	116	15-10-42
Barraud, Chas. A.	Nordegg	120	12-7-44
Basso, Joseph	Cadomin	123	8-11-44
Bailey, Edwin T.	Carbondale	124	8-11-44
Conlin, Richard	Drumheller	50	30-9-39
Clark, James	East Coulee	59	30-9-39
Cartledge, Harold L.	Edmonton	67	9-11-39
Callan, Lawrence	Cadomin	78	24-11-39
Chapman, James R.	Alexo	84	25-5-40
Craig, Andrew	Nacmine	91	11-9-40
Devonshire, George H.	Canmore	15	30-10-39
Dibble, Edwin W.	Coleman	26	30-9-39
Dutfield, George	Coleman	27	30-9-39
Dore, Vincent F.	Coal Valley	70	24-11-39
Dolan, Steve	Three Hills	81	21-12-39
Dolan, Iggie	Three Hills	82	21-12-39
Edwards, Mark	Entwistle	100	14-11-40
Fraser, James	Coleman	31	30-9-39
Ford, John C.	Drumheller	53	30-9-39
Freypps, John	East Coulee	60	30-9-39
Fox, Alfred	Carbon	83	21-12-39
Finlayson, John C.	Robb	102	15-11-40
Gilchrist, J. N.	Wabamun	5	27-9-39
Grover, Henry	Calgary	16	30-9-39
Gregor, Victor	Bellevue	17	30-9-39
Godfrey, Wiley R.	Coleman	18	30-9-39
Gidman, Joseph H.	Taber	40	30-9-39
Grant, Alexander	Rosedale	47	30-9-39
Horne, Robert	Drinnan	4	27-9-39
Hunter, James	Edmonton	8	27-9-39
Hallworth, Fredrick W.	Bellevue	23	30-9-39
Henderson, John R.	Nacmine	46	30-9-39
Herman, Martin	Drumheller	48	30-9-39
Higgins, William	Drumheller	52	30-9-39
Hansen, Knud	Midlandvale	55	30-9-39
Hoole, Wm.	East Coulee	86	10-9-40
Henderson, Patrick H.	Lethbridge	97	16-9-40
Hodgkinson, John L.	Evansburg	112	21-11-41
Heidel, H. G.	Priddis	117	12-11-43
Iwasiuk, Harry	Wabamun	7	27-9-39
Johnson, Albert E.	Drumheller	85	10-9-40
King, William G.	Lethbridge	37	30-9-39
King, Samuel D.	Iron Springs	41	30-9-39
Lambert, Louis J.	Edmonton	3	27-9-39
Lister, Alexander B.	Edmonton	9	27-9-39
Lawrence, Charles G.	Hillcrest	19	30-10-39
Lain, John T.	Foothills	69	24-11-39

List of Names of Holders of Mine Electricians' Certificates—Continued

Name	Address	Cert. No.	Date of Issue
Lattin, Albert	Drumheller	89	10- 9-40
Laslop, Ignac	Midlandvale	92	11- 9-40
Lavis, Stewart	Drumheller	119	12-11-43
Lamond, David	Edmonton	121	12- 7-44
Lupul, Eugene	Saunders	122	12- 7-44
Mitchell, Robert	Coleman	20	30- 9-39
Murdoch, Stewart	Coleman	21	30- 9-39
Millett, Fernley E.	Blairmore	22	30- 9-39
Montalbetti Raif A.	Coleman	32	30- 9-39
Mileson, Thomas H.	Lethbridge	34	30- 9-39
Milner, Robert	Lethbridge	44	30- 9-39
Munro, James H.	Lethbridge	45	30- 9-39
Murdoch, Horace	Rosedale	56	30- 9-39
Marsh, Cyril	Drumheller	57	30- 9-39
Milo, Michael	East Coulee	65	30- 9-39
Mellet, Percy M.	Sterco	71	24-11-39
Mathison, Matthew	Robb	72	24-11-39
Miller, William J.	Cadomin	79	24-11-39
Muhlberg, E. A.	Mountain Park	125	8-11-44
MacDonald, Edwin M.	Bellevue	24	30- 9-39
McKay, Fred	Blairmore	25	30- 9-39
McGregor, Hector	Lethbridge	36	30- 9-39
McMahon, James	Lethbridge	38	30- 9-39
McLeod, Fraser	Mercoal	74	24-11-39
Manning, Thomas	Drumheller	93	11- 9-40
Musgrove, Fred	Canmore	105	1-10-41
McQuillan, D. J.	Saunders	113	15-10-42
Nelson, Cals E.	Lethbridge	42	30-10-39
Nelson, Leonard G.	Lethbridge	96	16- 9-40
Oliphant, Cyril	Carben	80	21-12-39
O'Dwyer, John J.	Midlandvale	90	10- 9-40
Oliver Kenneth	Taber	109	1-10-41
Porter, Glen	Luscar	77	24-11-39
Phillips, Robert	Edmonton	111	21-11-41
Reishus, Odin K.	East Coulee	63	30- 9-39
Raisbeck, Luke	East Coulee	64	30- 9-39
Root, Clarence	Robb	73	24-11-39
Riordan, Leo	Edmonton	104	1- 5-41
Ransom, Albert S.	Nacmine	118	12-11-43
Smith, Eric W.	Nordeg	12	30- 9-39
Shanks, David S.	Nordeg	13	30- 9-39
Sbora, John	Drumheller	54	30- 9-39
Speight, James A.	Midlandvale	58	30- 9-39
Skow, Arthur M.	Drumheller	62	30- 9-39
Stacey, Alfred R.	Hinton	68	30- 9-39
Stewart, R. T.	Edmonton	99	14-11-40
Trysinsky Stanley	Hinton	103	23-12-40
Thackray, John	Shaughnessy	108	1-10-41
Tait, Burton	Edmonton	110	21-11-41
Vasek, Steven	Coleman	33	30-10-39
Wilson, Glen H.	Edmonton	6	27- 9-39
Waters, William J.	Saunders	10	30- 9-39
Wilson, John	Nordeg	11	30- 9-39
Warn, Roland	Bellevue	30	30- 9-39
Webster, James S.	Shaughnessy	35	30- 9-39
Wyatt, Douglas	Diamond City	43	30- 9-39
Weston, Clarence E.	Rosedale	66	30- 9-39
Watson, James S.	Mountain Park	75	24-11-39
Wilson, Mike	Willow Creek	94	12- 9-40
Wollersheim, Phillip	Drumheller	106	1-10-41
Worobec, Wm. N.	Bellevue	114	15-10-42
Weins, Wm. J.	Drumheller	115	15-10-42

*Deceased.

INFORMATION REGARDING INSPECTION DISTRICTS

Chief Inspector of Mines—John Crawford, Provincial Building, Edmonton, Alberta.
Telephone 22698.

Assistant Chief Inspector of Mines—J. A. Dutton, Provincial Building, Edmonton, Alberta.
Telephone 22889.

Electrical Inspector of Mines—Burton Tait, Provincial Building, Edmonton, Alberta.
Telephone 28614.

Inspector of Mines (at Large)—W. G. Heeley, New Court House Building, Calgary, Alberta. Telephone No. M842-84.

Inspection District	Area	Area Number	Character of Coal	No. of Mines in operation	Mines opened 1945	Mines re-opened	Mines closed	Mines abandoned during 1945	Name and Address of District Inspector of Mines
Edmonton-Camrose	Ardley	1	Sub-bituminous	10		7	2		A. B. Hunter, Provincial Bldg., Edmonton, Alta., Tel. No. 28612.
	Camrose	5	Sub-bituminous	6			2		
	Castor	8	Sub-bituminous	28	2	7	4	2	
	Edmonton	15	Sub-bituminous	28	6	2	1	2	
	Pembina	31	Sub-bituminous	4	2				
	Rochester	35	Sub-bituminous	2		1			
	Tofield	42	Sub-bituminous	5	1	1			
	Westlock	45	Sub-bituminous			1			
Calgary	Wetaskiwin	46	Sub-bituminous	1					W. E. G. Hall, New Court House Building, Calgary, Alta., Tel. No. M842-84.
	Big Valley	2	Sub-bituminous	2		1		1	
	Carbon	6	Sub-bituminous	15	1	4	1		
	Cascade	7	Bituminous	2					
	Highwood	19	Bituminous		1			1	
	Morley	23	Bituminous	1					
	Nordegg	25	Bituminous	1					
	Pekisko	30	Bituminous	1	1			1	
Edson	Saunders	36	Bituminous	2					A. Muir, Edson, Alta., Tel. No. 35.
	Coalspur	11	Bituminous	6					
	Mountain Park	24	Bituminous	4	1		1		
Blairmore	Prairie Creek	33	Bituminous	1			1		J. D. B. Brown, Blairmore, Alta., Tel. No. 70.
	Crowsnest	12	Bituminous	7	1	1			
Drumheller	Pincher	32	Bituminous	2		1	1		James Horne, Drumheller, Alta., Tel. No. 413.
	Big Valley	2	Sub-bituminous	1		1			
	Drumheller	14	Sub-bituminous	25		2	3	1	
	Gleichen	17	Sub-bituminous	6					
Lethbridge	Sheerness	38	Sub-bituminous	7		1	4		E. H. Morgan, Lethbridge, Alta., Tel. No. 3325.
	Brooks	3	Sub-bituminous	1					
	Champion	9	Sub-bituminous	2					
	Lethbridge	20	Sub-bituminous	8		1	2	1	
	Milk River	22	Sub-bituminous	2				1	
	Pakowki	28	Sub-bituminous	2					
	Redcliff	34	Sub-bituminous	2					
Edmonton	Taber	41	Sub-bituminous	5		1		1	J. A. Dutton, Provincial Bldg., Edmonton, Alta., Tel. No. 22889.
	Halcourt	18	Bituminous	2	1	1	3		
	High Prairie	48	Sub-bituminous	1		1	1		
	Pembina	31	Sub-bituminous	4	1	1	2		
	Whitecourt	47	Sub-bituminous	2			2		
Total				199	18	36	31	11	

THE MINES BRANCH

GOVERNMENT OF THE PROVINCE OF ALBERTA
MINES BRANCH

EXAMINATIONS UNDER THE MINES ACT

June 5, 6 and 7, 1945

FIRST CLASS CERTIFICATES

Marks obtainable 200.
Paper No. 1.Marks required 120.
Time: Three and one-half hours.

THE MINES ACT

	Values
1. What are the interpretations of Section 4 (e), (m) and (aa) of The Mines Act for "coal miner"; "mine" and "working face?"	14
2. What are the provisions of The Mines Act, Section 16, with reference to hours of employment?	22
3. What are the provisions of Section 33 (1), (2) and (3) of The Mines Act regarding appointment, removal and payment of wages to, a check-weigher or check-measurer?	24
4. What are the provisions of Section 107 (1) and (2) of The Mines Act regarding powers of Chief Inspector re cases of wasteful operation and settlement of disputes?	20
5. What are the provisions of Section 139, Rule 19 of The Mines Act, regarding shot-firing in dry or dusty places?	16
6. What are the requirements of the Regulations under The Mines Act with reference to rock-dusting?	32
7. What are the provisions of Section 141 (1) of The Mines Act with reference to fire protection?	14
8. What are the provisions of Sections 91, 92 and 93 of The Mines Act with references to ropes and chains?	22
9. What are the provisions of Section 166 of The Mines Act with reference to hoisting engineer or hoistman?	20
10. What are the provisions of Section 9 of The Mines Act with reference to the duty of Inspector finding dangerous conditions in a mine?	16

GOVERNMENT OF THE PROVINCE OF ALBERTA
MINES BRANCH

EXAMINATIONS UNDER THE MINES ACT

June 5, 6 and 7, 1945

FIRST CLASS CERTIFICATES

Marks obtainable 200.
Paper No. 2.Marks required 120.
Time: Three and one-half hours.

GASES, SHOT-FIRING AND SAFETY LAMPS

	Values
1. In what respects are the following gases alike? (a) stink-damp; (b) white damp; and in what respects do they differ? Write an account giving the chief chemical, physical and physiological properties of "stink-damp".	20
2. Assuming an original atmospheric pressure of 14.7 lbs. per square inch and a temperature of 60 deg. Fahr. in the mine, find the initial pressure due to the explosion of a body of carbon monoxide and air when the mixture consists of 2 vols. of the gas to 5 vols. of air, the temperature at the moment of explosion being 7,405 deg. Fahr.	22
3. A sample of the gases found within a fire zone has been chemically analysed and found to be composed of: Carbon dioxide 9.38% Oxygen 5.01% Methane 17.19% Hydrogen 0.39% Carbon monoxide 0.39% Nitrogen 67.64% From the figures given, work out and give a list of the figures of the technical analysis.	18
4. Show by sketches and describe fully, the operation of driving a rock tunnel. The size of the tunnel is 6 feet high and 12 feet wide. Show in sketch, the position of shot-holes, and describe how you would blast the same, and what precautions you would take during blasting.	22
5. At a certain mine, the temperature of the inlet is 38 deg. and that of the outlet 62 deg. Fahr. The mine resistance is equal to 15 lbs. per square foot and the atmospheric pressure is 14.7 lbs. per square inch. The quantity of air entering the mine is 100,000 cubic feet per minute and the return current is	

found to contain 4% of Methane. Show by calculation (a) what quantity of Methane is given off in this mine; and (b) what is the least amount of decrease in the quantity of air that will render the return air explosive (take 7.14% as the lower explosive limit); (c) what increase of gas will render the return air explosive? 24

6. A sample of coal dust from a roadway gives the following analysis:

Moisture	4.5%
Volatile matter	23.0%
Carbon	57.0%
Ash	15.5%

Treating the roadway with rock dust thus making the mixture 50 per cent coal dust and 50 per cent rock dust, what would be the approximate analysis of the resultant mixture and would this meet the requirements of the regulations? 18

7. The current of air entering a mine is 32,000 cubic feet per minute at the main intake. The current of air leaving the mine at the main return is 34,000 cubic feet per minute. What are the probable causes of the increased quantity? Show calculations and discuss. 24

8. What precautions would you take to prevent a coal dust explosion from spreading from one ventilating district to another? Do you consider it advisable or not to connect the workings of two adjoining seams with a view to having additional means of escape in case of an explosion? Discuss fully. 22

9. Give the chemical symbols, atomic weights and specific gravities of Methane, Carbon dioxide, Carbon monoxide and Air. Show how specific gravities are calculated from atomic weights. 14

10. (a) What is meant by the term "diffusion of gases"?

- (b) A volume of carbon dioxide and a volume of Methane are brought in contact with one another; show by calculation how many cubic feet of carbon dioxide will pass into the body of Methane while 10 cubic feet of the Methane will pass into the body of carbon dioxide 16

GOVERNMENT OF THE PROVINCE OF ALBERTA
MINES BRANCH
EXAMINATIONS UNDER THE MINES ACT
June 5, 6 and 7, 1945
FIRST CLASS CERTIFICATES

Marks obtainable 200.
Paper No. 3.

Marks required 120.
Time: Three and one-half hours.

VENTILATION

- | | Values |
|--|--------|
| 1. An air crossing is to be built of incombustible material. Describe in detail and with the aid of sketches, how you would carry out the construction of same, noting the materials used and precautions you would take. Why are "undercasts" to be avoided in air crossings? | 22 |
| 2. Explain fully the different methods of mine ventilation. Describe the continuous and split methods, or systems, of ventilation. Which do you prefer and why? What is ascensional ventilation? | 18 |
| 3. What must be the sectional area of a square airway that is required to pass 50,000 cubic feet per minute under a water-gauge of 1 inch, the length of the airway being one mile including the return? | 15 |
| 4. By calculation find the following dimensions of a fan that will produce 160,000 cubic feet per minute, against a resistance of 3 inches of water-gauge:
(a) diameter of fan;
(b) width of fan;
(c) diameter of fan inlet.
The fan is a double inlet fan; also show by calculation the speed of the fan in revs. per minute, and its volumetric capacity. | 23 |
| 5. The area of a regulator is 3 square feet. The weight of a cubic foot of air at the regulator is 0.078 lbs. The water-gauge that causes the air to pass through the regulator is one-half inch. Using the data given, find the quantity of air that passes through the regulator per minute. | 18 |
| 6. A certain mine is ventilated by an exhaust fan that reduces the pressure of the air in the fan drift 14.56 lbs. per square foot. The mine is situated at an elevation of 2,500 feet above sea level and at the time of observation the reading of the barometer was 27.286 inches. The measurement of the air in the intake airway showed a volume of 150,000 cubic feet per minute entering the mine, at a temperature of 40 deg. Fahr., while the measurement taken on the return airway showed a volume of 162,000 cubic feet per minute passing out of the mine at a temperature of 70 deg. Fahr. | |

- (a) What is the estimated volume of gas given off in this mine per minute;
- (b) What is the percentage of gas in the return air? 20
7. A mine has four districts each ventilated by a separate air current. The ventilating plant is adequate to ventilate the whole mine, but you find that one district is not receiving a sufficient supply of fresh air. How would you test for, and rectify, this deficiency? 20
8. Given two adjoining shafts 600 yards deep, the average temperature of one being 60 degrees Fahr., that in the other shaft 70 deg. Fahr., and the average weight of a cubic foot of air in the former is 0.078 lbs. Calculate the average weight of a cubic foot of air in the warmer shaft and the height of water-gauge corresponding to the difference in pressure. 18
9. What proportion of the air current produced by the fan at a mine reaches the working face? Give some examples of this proportion. What practical suggestions can you give to reduce this leakage, paying particular attention to the leakage near the shaft? 24
10. If a current of 200,000 cubic feet of air per minute is produced by a fan at a mine with a water-gauge of 4 inches, what is the air horse-power? What power must be applied to the fan if the efficiency is 70 per cent? Indicate the effect of increasing the power applied by 30 per cent when the mine conditions remain the same. 22

GOVERNMENT OF THE PROVINCE OF ALBERTA
MINES BRANCH

EXAMINATIONS UNDER THE MINES ACT

June 5, 6 and 7, 1945

FIRST CLASS CERTIFICATES

Marks obtainable 200.

Marks required 120.

Paper No. 4.

Time: Three and one-half hours.

PRACTICAL WORK, MINE RESCUE AND FIRST AID

- | | Values |
|---|--------|
| 1. A new mine is being opened up in a bituminous coal field which has been subjected to extensive folding and in which several mines are already in operation. The seam is 30 ft. thick and pitching approximately 60 degrees. The coal is friable, liable to spontaneous combustion and gaseous. During periods of pillar extraction the gas condition is at times aggravated by large outflows of gas. In planning future operations what considerations in respect to ventilation would receive your foremost attention? | 24 |
| 2. The length of a rectangular pillar is twice its width. If the length is increased by 30 yards and the width decreased by 10 yards the area would be 100 square yards less. Find the dimensions of the pillar. | 16 |
| 3. State the purposes of shaft pillars, and enumerate the factors that govern their size and shape. | 20 |
| 4. An aerial ropeway is to be set out between two points A and B, 1,000 yards apart, for the purpose of conveying 300 tons of slack per day to a central washery. Describe briefly the type of ropeway you would recommend and explain how it would be operated. | 18 |
| 5. A seam of coal 10 feet thick and pitching 15 to 18 degrees is driven by slopes on the full pitch of the seam, from which levels are driven at intervals of 800 feet. Headways are driven up on the full pitch of the seam in the centre of 600 foot blocks. It is proposed to extract this coal by duckbill loaders. Describe fully how you would lay out this work so as to get a maximum amount of coal with a minimum of risk. The roof is a very strong one. | 23 |
| 6. Enumerate the conditions which may arise in mines to affect injuriously the health of the workmen. What precautionary measures should be taken under the conditions you give? | 22 |
| 7. How may fires be caused by machinery underground? What steps should be taken in each instance that you give, to prevent occurrences? A fireboss alone in the mine at night has reported by telephone that he has discovered a fire in the vicinity of a transformer station. What steps would you take? Describe the various stages of the fire, up to sealing off the area. Assume your own conditions. What could have been the cause of the fire in this instance? | 20 |
| 8. You are called upon to supervise the re-opening of a mine which has been sealed owing to fire. The seam is fiery. How would you proceed? | 23 |
| 9. Find the best gradient (theoretically) for a horse road where the loaded car carries 2,000 lbs. of coal, the tare of the empty car being 800 lbs. and the co-efficient of friction being taken at 1/30 | 18 |
| 10. What is meant by "strip mining"? Describe the methods being used. Discuss the advantages and disadvantages of this system of mining. | 16 |

GOVERNMENT OF THE PROVINCE OF ALBERTA
MINES BRANCH

EXAMINATIONS UNDER THE MINES ACT

June 5, 6 and 7, 1945

FIRST CLASS CERTIFICATES

Marks obtainable 200.

Marks required 120.

Paper No. 5.

Time: Three and one-half hours.

MACHINERY

- | | Values |
|--|--------|
| 1. The exhaust ports and passages of a plant driven by compressed air sometimes get blocked by ice. How would you explain the presence and formation of this ice, and what means can be taken to prevent the ports and passages from being choked? | 16 |
| 2. The flywheel of an engine is 6 feet in diameter and makes 60 revolutions per minute. It drives a 4 feet pulley on the main shaft. A 12 inch pulley on the main shaft drives a 15 inch pulley on the countershaft. A 12 inch pulley on the countershaft drives a 9 inch pulley on a shaft on which is a pinion that meshes into a large gear having 51 teeth and attached to the face plate of a lathe. How many teeth must the pinion have in order that the face plate may make 32 revolutions per minute? | 22 |
| 3. An electrically driven pump raises 200 gallons of water per minute to a vertical height of 450 feet. If 40 per cent of the power is being used to overcome all friction, etc., calculate the amount of current the motor will take at 475 volts and the horsepower lost in transmission if the supply cable has a resistance of 2.1 ohms. A D.C. motor is used. | 20 |
| 4. What size of pipe should be used to transmit 800 cubic feet of air per minute through a pipe 2,500 feet long at a velocity of 2,000 feet per minute, the initial pressure being 100 pounds per square inch and the plant being located 4,000 feet above sea level. Barometer reading 26 inches. | 23 |
| 5. Sketch and describe a suitable man-trip car or carriage for conveying persons on a slope pitching 23 degrees. Discuss the safety features fully. | 24 |
| 6. Find the size of engine required to hoist a load of 3,000 tons of 2,240 lbs. each from a depth of 250 feet in 10 hours, with a steam pressure of 100 lbs. at the throttle. The weight of the cage is 7,500 lbs., car 2,500 lbs., material hoisted 4,480 lbs. Assume a piston speed of 500 feet per minute, 14 seconds for changing cars each trip, and assume a factor of safety of 5 in calculating the size of the hoisting rope. | 26 |
| 7. (a) What is the strength of good concrete?
(b) State the proportional ingredients of good concrete.
(c) How much water is used in the mixing of concrete for various uses? | 18 |
| 8. A compressor has compounded air cylinders 29 inches and 18 inches bore (inside diameter) and 42 inch stroke and runs 110 revs. per minute. What volume of air will be delivered to the receiver if the gauge pressure reads 80 lbs. per square inch, assuming the volume to vary inversely as the pressure? What factor is ignored in this assumption? Atmospheric pressure is to be taken as 15 lbs. per square inch. | 20 |
| 9. Discuss clearly the chief considerations to be borne in mind before deciding on the type of steam boiler to be adopted for colliery purposes. | 16 |
| 10. Calculate the quantity of water in cubic feet and in gallons, in a pond 60 feet square at the bottom with sides sloping 1 in 1½, if the depth of water be 10 feet. | 15 |

GOVERNMENT OF THE PROVINCE OF ALBERTA
MINES BRANCH

EXAMINATIONS UNDER THE MINES ACT

June 5, 6 and 7, 1945

FIRST CLASS CERTIFICATES

Marks obtainable 200.

Marks required 120.

Paper No. 6.

Time: Three and one-half hours.

SURVEYING, LEVELLING AND GEOLOGY

- | | Values |
|---|--------|
| 1. The following are the notes of an underground survey: | |
| 1-2 S 10°E 400 | |
| 2-3 S 85°E 200 | |
| 3-4 N 50°E 420 | |
| 4-5 S 35°E 550 | |
| Plot the survey by latitudes and departures on a scale of 100 feet to 1 inch and calculate the length and bearing of a straight line from Station 1 to Station 5. | 45 |

2. Work out the following level notes and draw a profile on a scale of 50 feet to 1 inch for horizontals and 10 feet to 1 inch for verticals. Stations are 50 feet apart.

Station	B.S.	I.S.	F.S.	H.I.	Elevation
B.M.	13.95				100 feet
1		9.71			
2		5.05			
3	13.73		0.32		
4		13.84			
5		14.55			
6		15.00			
7	14.32		11.12		
8		11.73			
9		10.65			
10			5.56		

3. Station 7 and Station 8 are two survey stations in the roof of a slope. The instrument is 3.6 feet below Station 7 and the sight is taken to a point 0.7 feet below Station 8. The slope distance measured on the line of sight is 715 feet and the vernier of the vertical circle reads $-10^{\circ}16'$. The elevation of Station 7 is 682.5 feet. Find the elevation of Station 8, also the horizontal distance between Stations and the dip of the slope. 40
4. The area on a mine plan showing the extent of extraction of coal in a seam dipping 1 in 3 (1 vertical to 3 horizontal) is found to be 15.78 acres. The thickness of the seam measured at right angles to the dip is 42 inches. Calculate the number of tons mined if the Specific Gravity of the coal is 1.27 allowing 5 per cent for waste. 30
5. The bearing of an entry in a mine is $N 30^{\circ} E$ and the rooms turned from it have a bearing of $N 30^{\circ} W$. The rooms are driven 18 feet wide with 18 foot pillars. What is the distance between room centres on the line of sight on the entry? 18
6. Give the names of the Geological Horizons from which coal is being mined in Alberta. In each case state the proximate analysis, the heat values, the particular characteristics and uses. 25
7. A plan as required by Rule 7 of the Rules Governing Examinations under The Mines Act must be handed in to the presiding examiners with the answers to this paper. 6
8. A profile of an underground levelling as required by Rule 7 of the Rules Governing Examinations under The Mines Act, must be handed in to the presiding examiners with the answers to this paper. 6

GOVERNMENT OF THE PROVINCE OF ALBERTA
MINES BRANCH
EXAMINATIONS UNDER THE MINES ACT
June 5, 6 and 7, 1945
SECOND CLASS CERTIFICATES

Marks obtainable 200. Marks required 100.
Paper No. 1. Time: Three and one-half hours.

THE MINES ACT

- | | |
|---|--------|
| | Values |
| 1. What are the provisions of The Mines Act, Section 16, with reference to hours of employment? | 30 |
| 2. What are the provisions of Section 77 of The Mines Act regarding prohibition of taking into or using in a mine certain machinery and explosives, also demonstration by operators? | 30 |
| 3. What are the provisions of Section 89 of The Mines Act with reference to hoisting apparatus? | 15 |
| 4. What are the provisions of Section 113 of The Mines Act regarding ventilation? | 25 |
| 5. What are the requirements of Section 127 of The Mines Act re inspection of mines in which inflammable gas has been found? | 10 |
| 6. What are the requirements of Section 139 (8) and (9) with reference to handling of explosives underground, and shot-firing on longwall faces? | 15 |
| 7. What are the provisions of Section 148 of The Mines Act regarding conveyor roads and longwall faces? | 20 |
| 8. What are the provisions of Section 156 (9), (15) and (29) of The Mines Act with reference to delegation of work by persons in positions of trust; unauthorized interference with ventilation and going on or across shaft bottoms? | 15 |
| 9. What are the provisions of Section 166 of The Mines Act with reference to hoisting engineer or hoistman? | 20 |
| 10. Oral Examination. | 20 |

GOVERNMENT OF THE PROVINCE OF ALBERTA
MINES BRANCH
EXAMINATIONS UNDER THE MINES ACT
June 5, 6 and 7, 1945

SECOND CLASS CERTIFICATES

Marks obtainable 200.
Paper No. 2.

Marks required 100.
Time: Three and one-half hours.

VENTILATION, GASES, SHOT-FIRING AND SAFETY LAMPS

- | | Values |
|---|--------|
| 1. The volume of air measured at the intake of a mine is 125,000 cubic feet at 20° F. below zero, and at the outlet 151,000 cubic feet at 50° F. Find the percentage of gas in the return. | 20 |
| 2. Find the volume of air in an entry which measures 8'×10' and is 4,000 feet in length, if the barometer stands at 27" and rapidly drops to 25", what will be the new volume of this air after expanding? | 20 |
| 3. Show how to find the molecular weight, density and specific gravity of Co and H ₂ S. | 25 |
| 4. Name and give the causes of the occurrence of occluded gases found in coal measures. | 20 |
| 5. Describe clearly and show by means of sketches, the most efficient method of loading a horizontal shot-hole with permitted explosives, paying particular attention to relative position of the primer, the direction which the blasting cap should point, and the method of making up the primer cartridge. | 25 |
| 6. What is the nature of permissible explosives as determined by their composition, and how do they differ from pellet powder? | 20 |
| 7. What is the worst single hazard in the use of Cardox in the blasting of coal, and the cause of same? | 20 |
| 8. What are the principles involved in the safety lamp? Name six essential features of a good lamp for general use. | 20 |
| 9. Explain the formula $p = \frac{k s v^2}{a}$, and its application. | 10 |
| 10. Oral Examination. | 20 |

GOVERNMENT OF THE PROVINCE OF ALBERTA
MINES BRANCH
EXAMINATIONS UNDER THE MINES ACT
June 5, 6 and 7, 1945

SECOND CLASS CERTIFICATES

Marks obtainable 200.
Paper No. 3.

Marks required 100.
Time: Three and one-half hours.

PRACTICAL WORK

- | | Values |
|---|--------|
| 1. Why is it necessary to have larger pillars in some mines than in others? Discuss fully. | 20 |
| 2. What are the causes of "creep" and "squeeze"? How would you guard against them? How would you proceed to stop them? | 25 |
| 3. In a certain mine, what should be the diameter of a 14 foot collar boom if 6" timber is used when the collars are 8' long? | 15 |
| 4. In case a workman is in contact with a live electric wire, how would you release him? If he is rendered unconscious, how would you proceed to revive him? | 20 |
| 5. Do you consider it necessary to conduct an air current across the face of old workings, on a steep pitch, in a gaseous mine, and why? | 20 |
| 6. How many mine cars would be required to operate a mine having an output of 1,500 tons of mine run coal per day of eight hours, the cars have a capacity of 2 tons of mine run coal per car, and allowing a period of 2 hours time for each car to be loaded, hauled to the tippie, emptied and returned to the working face? | 15 |
| 7. Suppose you were wearing a rescue apparatus while hurrying into a mine to save a man and you suddenly felt as though you could not breathe under normal working conditions, what would probably be the cause and what would you do? | 20 |
| 8. Does pillar work require more attention by mine officials than places advancing in the solid? If so, give reasons fully. | 25 |
| 9. An entry is driven 400 yards, the cost per yard is \$2.00, the drain alongside cost 15c per foot. Ties spaced 2 feet between centres cost 17c each. The | |

- rails weigh 25 lbs. per yard, are in 30 foot lengths, and cost \$50.00 per gross ton. The spikes are worth 2c each. Splice bars cost 60c per pair. What is the total cost of the entry? 20
10. Oral Examination. 20

GOVERNMENT OF THE PROVINCE OF ALBERTA
MINES BRANCH
EXAMINATIONS UNDER THE MINES ACT
June 5, 6 and 7, 1945

SECOND CLASS CERTIFICATES

Marks obtainable 200. Marks required 100.
Paper No. 4. Time: One and one-half hours.

MACHINERY

- | | Values |
|--|--------|
| 1. A pump at the bottom of a slope 560 feet in length, pitching 47° , is discharging water to the surface through a 10 inch column pipe. What is the static pressure per square inch at the pump, and what is the total weight of water in the pipe? | 30 |
| 2. Eight cars of a gross weight each of 4,000 lbs. are hoisted up a 4° slope 700 feet long in three minutes, the co-efficient of friction is $1/40$ and the efficiency of the engine is 60%. Find the horse-power of the engine. | 35 |
| 3. Define fully the following electric units: ampere, Ohm, volt, watt, kilowatt and kilowatt hour. | 25 |
| 4. Calculate the diameter of a best plow steel, 6 strand 19 wire rope required for hoisting in a shaft 1,500 feet deep. The mine cars weigh 1,850 lbs. and have a capacity of 3,700 lbs. each; the weight of the cage is 3,700 lbs. Allow one-tenth of the total load hoisted for friction. | 35 |
| 5. In a geared hoist with a drum diameter of 6 feet the ratio of gears is 3 to 1, the engine makes 90 R.P.M., find the speed of hoisting. | 25 |
| 6. Describe clearly with sketch or sketches, a suitable coal-cutting machine for cutting in a 4 foot seam. Electric power is available. The seam is approximately flat. | 30 |
| 7. Oral Examination. | 20 |

GOVERNMENT OF THE PROVINCE OF ALBERTA
MINES BRANCH
EXAMINATIONS UNDER THE MINES ACT
June 5, 6 and 7, 1945

SECOND CLASS CERTIFICATES

Marks obtainable 200. Marks required 100.
Paper No. 5. Time: One and one-half hours.

SURVEYING, LEVELLING AND GEOLOGY

- | | Values | | | | | | | | | | | | | | | | | | |
|--|--------------------|----------|----------|-----|-------------------|------|-----|--------------------|------|-----|-------|------|-----|--------------------|------|-----|-------------------|------|----|
| 1. Plot by protractor or any other means, the following notes of an underground survey, on a scale of 100 feet to one inch, and find the bearing and distance of the closing line:
<table border="0"><thead><tr><th>Station</th><th>Bearing</th><th>Distance</th></tr></thead><tbody><tr><td>1-2</td><td>N. 5° E.</td><td>250'</td></tr><tr><td>2-3</td><td>N. 30° W.</td><td>300'</td></tr><tr><td>3-4</td><td>North</td><td>200'</td></tr><tr><td>4-5</td><td>S. 60° E.</td><td>450'</td></tr><tr><td>5-6</td><td>S. 5° W.</td><td>500'</td></tr></tbody></table> | Station | Bearing | Distance | 1-2 | N. 5° E. | 250' | 2-3 | N. 30° W. | 300' | 3-4 | North | 200' | 4-5 | S. 60° E. | 450' | 5-6 | S. 5° W. | 500' | 50 |
| Station | Bearing | Distance | | | | | | | | | | | | | | | | | |
| 1-2 | N. 5° E. | 250' | | | | | | | | | | | | | | | | | |
| 2-3 | N. 30° W. | 300' | | | | | | | | | | | | | | | | | |
| 3-4 | North | 200' | | | | | | | | | | | | | | | | | |
| 4-5 | S. 60° E. | 450' | | | | | | | | | | | | | | | | | |
| 5-6 | S. 5° W. | 500' | | | | | | | | | | | | | | | | | |
| 2. On a mine plan a pillar of coal is 350 feet long, 50 feet wide and runs straight up the pitch in a seam of coal 6 feet thick pitching 32° . The specific gravity of the coal is 1.34. Find the number of tons of coal in this pillar, making no allowance for partings or waste. | 40 | | | | | | | | | | | | | | | | | | |
| 3. Where the magnetic declination is 21° East of North, give the true bearings of the following magnetic bearings:
N. 42° E.; S. 78° E.; S. 10° W.; and N. 40° W. | 20 | | | | | | | | | | | | | | | | | | |
| 4. Below is a set of level notes taken with the object of constructing an incline from seam on the creek to prairie level at Station 9-00. Find the grade of this incline. | | | | | | | | | | | | | | | | | | | |

Station	B.S.	Int.	F.S.	H.I.	Elevation	Remarks B.M. level of seam on creek
					230.09	
0	8.00					
0+60'		4.7				
1 00		2.6				
1+40'		3.2				
2 00		5.0				
2+75'		2.0				
3 00		0.8				
3+60'		3.1				
4+10'	T.P.	17.50	4.35			
5 00		9.0				
6 00		7.7				
7+60'		8.7				
8 00		5.0				
9 00		0.8				40
5. (a) Describe how stratified rock may have been formed;						
(b) what do you understand by a conglomerate?						
(c) to what class of rocks does granite belong?						
(d) describe the probable method of formation of this class of rocks.						30
6. Oral Examination.						20

GOVERNMENT OF THE PROVINCE OF ALBERTA
MINES BRANCH

EXAMINATIONS UNDER THE MINES ACT
May 29, 1945

THIRD CLASS CERTIFICATES

Marks obtainable 200.

Marks required 100.

Paper No. 1.

Time: One and one-half hours.

THE MINES ACT

	Values
1. What are the requirements of Section 13 of The Mines Act regarding:	
(a) persons in charge of or operating means of transport;	
(b) medical certificates as to such persons?	20
2. What are the requirements of Section 16, subsections (1) and (2) of The Mines Act regarding hours of employment below ground, and the exceptions thereto?	22
3. State the requirements of Section 160 of The Mines Act with reference to the duties of a shot-lighter.	24
4. What do the General Rules under Section 156 of The Mines Act state regarding:	
(a) duties of a trapper (Rule 33);	
(b) riding on cars (Rule 17);	
(c) employment at a working face at a distance from others (Rule 24)?	24
5. What are the requirements of the Regulations under The Mines Act regarding:	
(a) a ventilating fan that has been stopped overnight (Sec. 6);	
(b) where shots are fired electrically (Sec. 13)?	18
6. Under the heading of "timbering" in Section 151 of The Mines Act, what are the requirements as to:	
(a) roof supports at working face;	
(b) supply of timber;	
(c) temporary supports;	
(d) timbering of travelling roads?	22
7. Under the heading of "care and use of explosives" (Section 139) of The Mines Act, what is stated regarding:	
(a) method of charging or stemming for blasting;	
(b) shot-firing in dry and dusty places;	
(c) mode of handling explosives below ground?	28
8. State the requirements of Section 66, subsection (1) and (2) of The Mines Act regarding size of a district of a mine assigned to any examiner or fireboss, and the duties assigned to him under this section.	22
9. Oral Examination.	20

THE MINES BRANCH

GOVERNMENT OF THE PROVINCE OF ALBERTA

MINES BRANCH

EXAMINATIONS UNDER THE MINES ACT

May 29, 1945

THIRD CLASS CERTIFICATES

Marks obtainable 200.

Paper No. 2.

Marks required 100.

Time: Two hours.

MINE CASES, SHOT-FIRING, EXPLOSIVES AND SAFETY LAMPS

	Values
1. When testing, what are the minimum and maximum percentages at which you would be able to detect gas on the flame of a safety lamp? Give the percentages of gas corresponding to a cap of $\frac{1}{2}$, $\frac{3}{4}$, 1 and $1\frac{1}{2}$ inches respectively.	20
2. What are the chief measures to be taken in mines where there is possible danger of gas or coal dust explosions occurring?	24
3. Name the gases recognized by the following chemical symbols: CH ₄ , CO ₂ , CO and H ₂ S. State how these gases are produced in mines, and their method of detection.	26
4. What dangers arise from lack of judgment in placing shots for the purpose of shot-firing in coal?	22
5. Sketch a flame type safety lamp you are familiar with, and state the number of apertures per square inch of the gauzes used with this lamp.	20
6. In a room 12 feet wide and 8 feet in height, a mining has been made in a soft parting in the seam near the roof. Show by a sketch how the shot-holes should be placed to dislodge the coal. How many shots would you consider necessary, and which would you fire first?	28
7. Give the names of the explosives on the List of Permitted Explosives under The Mines Act, and the permissible maximum charge for any one shot.	18
8. What are the causes of "blown out" shots and miss-shots respectively? If a shot missed fire, describe how you would recover the explosive and detonator.	22
9. Oral Examination.	20

GOVERNMENT OF THE PROVINCE OF ALBERTA

MINES BRANCH

EXAMINATIONS UNDER THE MINES ACT

May 29, 1945

THIRD CLASS CERTIFICATES

Marks obtainable 200.

Paper No. 3.

Marks required 100.

Time: One and one-half hours.

VENTILATION

	Values
1. In a district where 60 persons and 4 horses are employed, what is the minimum velocity of air required to pass, if the intake airway is 8 by 8 in dimension?	22
2. In a pitching seam there are ten rooms driven off a gangway; an explosive mixture is discovered in the third room. State how you would remove the gas and the precautions you would take while doing so.	28
3. Sketch a water-gauge as used at a mine where air is being exhausted by the fan. Show a reading corresponding to a difference of ventilating pressure of 7.8 lbs. per sq. foot.	26
4. Electric fans and tubing are used to ventilate a pair of entries. Show by a sketch where you would place the fans in relation to the direction of the main ventilating air currents. Give reasons for your answer.	22
5. The ventilation passing through the last crosscut in a district under your charge is found to be inadequate. There is sufficient air entering the district. State the probable causes and how you would restore the ventilation.	24
6. Show by a sketch a box regulator and state for what purpose it is used in mines.	18
7. Explain the difference between the forcing and exhausting systems of ventilation.	20
8. State how you would determine to measure the quantity of air passing through an airway in a mine.	20
9. Oral Examination.	20

GOVERNMENT OF THE PROVINCE OF ALBERTA
MINES BRANCH
EXAMINATIONS UNDER THE MINES ACT
May 29, 1945

THIRD CLASS CERTIFICATES

Marks obtainable 200.
Paper No. 4.

Marks required 100.
Time: Two hours.

PRACTICAL WORK

- | | Values |
|--|--------|
| 1. What dangers are met with in approaching inaccessible old workings? What precautions should be taken to avoid these dangers? | 20 |
| 2. Show by sketches the method of setting timber supports where: | |
| (a) there is extreme side pressure; | |
| (b) the floor is soft; | |
| (c) the floor is hard; | |
| (d) posts and cap pieces only are required in a room pitching 30 degrees. | 24 |
| 3. You are in complete charge of the afternoon shift of workmen when a fire is discovered on the main intake airway. State what action you would take to safeguard the workmen and deal with the fire. | 28 |
| 4. A centrifugal pump under your charge has failed to discharge its water. State the probable causes for this failure. | 20 |
| 5. A round of 10 shots are to be fired in a rock tunnel. Show by sketches how you would connect them: | |
| (a) in series; | |
| (b) in parallel. | 18 |
| 6. When making your inspection before a shift commences work, state what observations you would make. What are you required to do immediately before and after the inspection? | 22 |
| 7. Explain how you would set sprags to support the coal at the face of a room while it is being undermined. | 20 |
| 8. What is meant by "escape roads" when used in the drawing of pillars? Show by a sketch an escape road in a place where the pillar is being extracted, where the miners must work behind a battery. | 28 |
| 9. Oral Examination. | 20 |

GOVERNMENT OF THE PROVINCE OF ALBERTA
MINES BRANCH
EXAMINATIONS UNDER THE MINES ACT
June 7th, 1945

MINE SURVEYORS' CERTIFICATES

Marks obtainable 200.
Paper No. 1.

Marks required 120.
Time: Three and one-half hours.

SURVEYING

1. The following are the co-ordinates of stations relative to an underground survey:

Station	Total Latitude in feet	Total Departure in ft.
1	0.00	0.00
2	S 84.92	E153.09
3	S371.92	E254.25
4	S639.16	E114.34
5	S465.74	E 27.63

Station 1 is 38.74 feet higher than Station 5.

It is proposed to drive a slope due south, dipping 1 vertical to 10 horizontal from Station 1 to intersect at a point X with a level entry to be driven from Station 5. Calculate the bearing and length of the proposed entry from Station 5 to the point of intersection X. Plot the survey from the co-ordinates given from Station 1 to 5 on a scale of 100 feet to 1 inch. 48

2. The following are the notes of an underground survey on the floor of a coal seam:

Station	Bearing	Horizontal distance in feet
1-2	S 30°25'W	425.04
2-3	N 13°00'W	419.1
3-4	N 31°00'W	1039.17
4-5	S 61°00'E	463.98
5-6	S 61°00'E	735.9

The direction of the full dip of the seam is found to be in a direct line through Station 3 to Station 6 and the rate of dip is 1 vertical to 9 horizontal. Calculate the difference in level between Station 2 and Station 5, the dip being uniform. 47

- 3. From each end of a base line A-B, 600 feet long, sights were taken simultaneously to a boat taking soundings on a lake. The following angles were measured BAC 62°.ABC 20°.BAD 51° and ABD 65°. Compute the distance separating C and D which represent two successive positions of the boat. ... 30
- 4. The sum of the perimeters of two square pieces of land is 1,368 feet and the sum of their areas is 59,130 square feet. Calculate the length of a side of each piece of land. 20
- 5. What appliances would you use in making an important underground survey in a slightly pitching seam, and how would you use them to get the most accurate results? What check would you make to determine the accuracy of your work Give a short sketch of how you would book your notes, and state how you would prepare the data from your notes for the making of a mine plan. 30
- 6. Oral Examination. 20
- 7. A plan as required by Rule 7 of the Rules Governing Examinations under The Mines Act must be handed in to the presiding examiners with the answers to this paper. 5

GOVERNMENT OF THE PROVINCE OF ALBERTA
MINES BRANCH
EXAMINATIONS UNDER THE MINES ACT
June 7th, 1945
MINE SURVEYORS' CERTIFICATES

Marks obtainable 200.
Paper No. 2.

Marks required 120.
Time: Three and one-half hours.

LEVELLING AND GEOLOGY

- 1. A roadway advancing due East on the strike of a coal seam meets an up-throw fault bearing North and South, having a hade of 30° to the vertical and displacing the seam 50 feet. Draw a plan of the roadway and the fault showing a rock raise 1 in 8 (1 vertical to 8 horizontal) striking the seam 50 feet to the East of the upper side of the fault. Mark the length of the rock raise measuring from floor to floor. Plot to a scale of 100 feet to 1 inch. . 30
- 2. Calculate the volume of excavation in a length of 200 feet of a level railway cutting with the sides sloping at 1 vertical to 1.5 horizontal. The cross-sections are taken at 100 feet intervals and the heights, in feet, at the top of the slopes above formation level are as follows:

	Left	Centre	Right
1st cross section	18.4	16.0	15.5
2nd cross section	16.0	14.5	18.0
3rd cross section	13.5	12.0	14.0

The width of road bed at formation level is ten feet. 30
- 3. A seam of coal is seen to dip on two exposed faces of an open cut. The apparent dips being (a) 30° in the direction S45°E; (b) 45° in the direction S40°W. Find the direction of the strike and the rate of true dip of the seam by graphical method. Verify your answer by calculations. 30
- 4. An Engineer's Wye was set up at a point A, at a height of 4.92 feet above the ground, and a levelling rod set up at a point B, 200 feet away, gave a reading of 5.52 feet. The instrument was then set up at the point B at a height of 4.84 feet above the ground, and a levelling rod set up on point A gave a reading of 4.64 feet. (a) Determine the extent of the error in the adjustment of the line of collimation and the difference in level between the points A and B; (b) how would you make the adjustment in the line of collimation? 30
- 5. The line of collimation having been found to be out of correct adjustment as in Question 4, and it is not convenient to make the proper adjustment, how would you carry on with the work of levelling and obtain accurate results? 15
- 6. Give the names of the geological horizons from which coal is being mined in Alberta. State in each case the proximate analysis, the heat value, the particular characteristics and uses. 20
- 7. What are the requirements of The Mines Act and Regulations relating to the mine plans? 20
- 8. Oral Examination. 20
- 9. A profile of an underground levelling as required by Rule 7 of the Rules Governing Examinations under The Mines Act must be handed in to the presiding examlners with the answers to this paper..... 5

PARTICULARS OF OPERATING MINES IN THE VARIOUS AREAS

ARDLEY AREA

F. A. Straub—Mine No. 255

Mine Office: Alix, Alberta.
 Overman: F. A. Straub.
 Mine Surveyor: David Jones.
 Mine Manager: J. C. Craig.
 Location of Mine: L.S. 5, Sec. 17, Tp. 38, Rge. 23, W. 4th Mer.
 Thickness of Seam: 4ft. 18in.
 Inclination of Seam: Horizontal.
 Thickness of Cover: 30 feet.
 Stripping operation. Truck mine.

J. W. Sissons—Mine No. 809

Mine Office: Alix, Alberta.
 Overman: Clive Sissons.
 Mine Surveyor: Robert Hamilton.
 Location of Mine: E. of C.N.R. L.S. 6, Sec. 23, Tp. 38, Rge. 23, W. 4th Mer.
 Thickness of Seam: 5½ feet.
 Inclination of Seam: Horizontal.
 Thickness of Cover: 40 feet.
 Form of Opening: Stripping operation.
 Truck mine.

James Blades—Mine No. 969

Mine Office: Delburne, Alberta.
 Overman: James Blades.
 Mine Surveyor: L. C. Stevens.
 Location of Mine: N.W. ¼, Sec. 10, Tp. 38, Rge. 22, W. 4th Mer.
 Thickness of Seam: 3½ft.
 Inclination of Seam: Horizontal.
 Thickness of Cover: Up to 100 feet.
 Form of Opening: Slope. Size of Slope: 6ft. by 6ft. Depth of Slope: 80 feet.
 Truck mine.

Lynass Coal Mine—Mine No. 1322

Mine Office: Delburne, Alberta.
 Overman: John Lynass.
 Mine Surveyor: David Jones.
 Location of Mine: L.S.16, Sec. 7, Tp. 38, Rge. 23, W. 4th Mer.
 Thickness of Seam: 5 feet.
 Inclination of Seam: Horizontal.
 Thickness of Cover: 200 feet.
 Truck mine.

Chas. O. Russell—Mine No. 1488

Mine Office: Alix, Alberta.
 Overman: Chas. O. Russell.
 Mine Surveyor: David Jones.
 Location of Mine: L.S. 3, Sec. 29, Tp. 38, Rge. 23, W. 4th Mer.
 Thickness of Seam: 5 feet.
 Inclination of Seam: Horizontal.
 Thickness of Cover: 45 feet.
 Truck mine.

Kehl & McGladrie—Mine No. 1586

Mine Office: Nevis, Alberta.
 Overman: Frank I. Kehl.
 Mine Surveyor: David Jones.
 Location of Mine: L.S. 5, Sec. 35, Tp. 37, Rge. 22, W. 4th Mer.
 Thickness of Seam: 4ft. 6in.
 Inclination of Seam: Horizontal.
 Thickness of Cover: 75 feet.
 Form of Opening: Slope. Size of Slope: 6ft. by 7ft. Depth of Slope: 135 feet.
 C.N.R. and Truck mine.

S. S. Munro & Son—Mine No. 1605.

Mine Office: Ardley, Alberta.
 Overman: S. S. Munro.
 Mine Surveyor: David Jones.
 Fireboss: John Nashchuk.
 Location of Mine: L.S. 12, Sec. 35, Tp. 38, Rge. 23, W. 4th Mer.
 Thickness of Seam: 4 feet.
 Inclination of Seam: Horizontal.
 Thickness of Cover: 3 feet.
 Truck mine.

William Barrell & A. Auvinne—Mine No. 1613.

Mine Office: Ardley, Alberta.
 Overman: W. Barrell.
 Mine Surveyor: David Jones.
 Location of Mine: L.S. 10, Sec. 20, Tp. 38, Rge. 23, W. 4th Mer.
 Thickness of Seam: 5½ft. to 6ft.
 Inclination of Seam: Horizontal.
 Thickness of Cover: 75 to 100 feet.
 Stripping operation. Truck mine.

BIG VALLEY AREA

Big Valley Coal Co.—Mine No. 864

Head Office: Big Valley.
 Mine Office: Big Valley, Alberta.
 Mine Manager: John McAlister.
 Mine Surveyor: David Jones.
 Overman: Alexander McCulloch.
 Location of Mine: L.S. 16, Sec. 26, Tp. 35, Rge. 20, W. 4th Mer.
 Thickness of Seam: 9 feet.
 Inclination of Seam: Level.
 Thickness of Cover: 15 feet.
 Form of Opening: Slope. Size of Slope: 7 feet. Depth of Slope: 6 feet.
 Truck and C.N.R. Mine.

James McKinlay & Sons—Mine No. 1189

Mine Office: Huxley, Alberta.
 Overman: Donald McKinlay.
 Mine Surveyor: David Jones.
 Location of Mine: E. ½ of E. ½ L.S. 13, and L.S. 14 of Sec. 3, Tp. 34, Rge. 22, W. 4th Mer.
 Thickness of Seam: 2ft. 9in.
 Inclination of Seam: Horizontal.
 Thickness of Cover: 75 feet.
 Form of Opening: Slope. Size of Slope: 7ft. by 5ft. Depth of Slope: 400 feet.
 Truck mine.

Robert Campkin—Mine No. 1254

Mine Office: Lousana, Alberta.
 Overman: Robert Campkin.
 Mine Surveyor: David Jones.
 Location of Mine: S.W. ¼ L.S. 16, Sec. 12, Tp. 36, Rge. 22, W. 4th Mer.
 Thickness of Seam: 5 feet.
 Inclination of Seam: Horizontal.
 Thickness of Cover: 200 feet.
 Form of Opening: Level.
 Truck mine.

BROOKS AREA

Birnwel Coal, Ltd.—Mine No. 1404

Name of Directors: G. A. Vissac for Coal Controller of Canada.
 Name of Secretary: J. P. Harvey.
 Head Office: Calgary, Alberta.
 Mine Office: Eyremore, Alberta.
 Mine Manager: Allan Hamilton.
 Mine Surveyor: A. E. Williams.
 Location of Mine: Sec. 15, Tp. 17, Rge. 17, W. 4th Mer.
 Thickness of Seam: 5ft. 5in.
 Inclination of Seam: Horizontal.
 Thickness of Cover: 20 to 40 feet.
 Form of Opening: Open stripping.
 Truck and C.P.R. mine.

CAMROSE AREA

Burnstad Coal—Mine No. 724

Mine Office: Round Hill, Alberta.
 Overman: F. Gothridge.
 Mine Surveyor: David Jones.
 Location of Mine: S.W. ¼, Sec. 15, Tp. 48, Rge. 18, W. 4th Mer.
 Thickness of Seam: 5ft. 8in.
 Inclination of Seam: Horizontal.
 Thickness of Cover: 16 feet.
 Form of Opening: Entry.
 Truck mine.

Red Flame Coal Co., Ltd.—Mine No. 1420

Authorized Capital: \$20,000.
 Name of President: John Russell.
 Names of Directors: John Russell, Alex. Russell, R. Shortreed.
 Name of Sec.-Treas.: R. Shortreed.
 Mine Office: Round Hill, Alberta.
 Overman: John Russell.
 Mine Surveyor: David Jones.
 Fireboss: W. V. Gotheridge.
 Location of Mine: L.S. 14, Sec. 19, Tp. 48, Rge. 18, W. 4th Mer.
 Thickness of Seam: 6ft. to 7ft.
 Inclination of Seam: Horizontal.
 Thickness of Cover: 110 feet.
 Form of Opening: Slope. Size of Slope: 6ft. by 7ft. Depth of Slope: 225 feet.
 Truck and C.N.R. mine.

Geo. Shute & Partners—Mine No. 1524

Mine Office: Dinant, Alberta.
 Overman: Geo. Shute.
 Mine Surveyor: David Jones.
 Location of Mine: E. $\frac{1}{2}$ Sec. 7, Tp. 48, Rge. 19, W. 4th Mer.
 Thickness of Seam: 5 feet.
 Inclination of Seam: Horizontal.
 Thickness of Cover: 17 feet.
 Stripping operation.
 Truck mine.

Camrose Collieries, Ltd.—Mine No. 1603

Authorized Capital: \$200,000.
 President and Managing Director: D. Twomey, Jr.
 Mine Office: Camrose, Alberta.
 Mine Manager: D. Twomey, Jr.
 Overman: R. B. Munn.
 Mine Surveyor: A. E. Williams.
 Location of Mine: L.S. 2 and 7, Sec. 29, Tp. 46, Rge. 19, W. 4th Mer.
 Thickness of Seam: 5ft. 8in.
 Inclination of Seam: Horizontal.
 Thickness of Cover: 20 to 27 feet.
 Form of Opening: Strip pit.
 Truck mine.

CARBON AREA**Henry Dolphin—Mine No. 53**

Mine Office: Carbon, Alberta.
 Overman: H. Dolphin.
 Mine Surveyor: David Jones.
 Location of Mine: L.S. 3, Sec. 14, Tp. 29, Rge. 23, W. 4th Mer.
 Thickness of Seam: 3ft. 10in.
 Inclination of Seam: Horizontal.
 Thickness of Cover: Up to 150 feet.
 Truck mine.

Inland Coal Co., Ltd.—Mine No. 384

Authorized Capital: \$20,000.
 Name of President: W. J. Nesbitt.
 Name of Directors: W. J. Nesbitt, R. B. Watson.
 Name of Sec.-Treas.: R. D. Watson.
 Head Office: 804 McLeod Bldg., Edmonton, Alberta.
 Mine Office: Three Hills, Alberta.
 Mine Manager: R. T. Stewart.
 Mine Surveyor: R. T. Stewart.
 Firebosses: P. George, W. H. Mullinger.
 Location of Mine: L.S. 3, Sec. 36, Tp. 31, Rge. 24, W. 4th Mer.
 Thickness of Seam: 5 feet.
 Inclination of Seam: Dips 1% S.E.
 Thickness of Cover: 160 feet.
 Form of Opening: Shaft. Size of Shaft: 11½ft. by 8ft. Depth of Shaft: 169 feet.
 C.N.R. and Truck mine.

Jas. W. Ryning—Mine No. 690

Mine Office: Rowley, Alberta.
 Overman: Jas. W. Ryning.
 Mine Surveyor: David Jones.
 Location of Mine: L.S. 4, Sec. 12, Tp. 32, Rge. 21, W. 4th Mer.

Thickness of Seam: 5 feet
 Inclination of Seam: Horizontal.
 Thickness of Cover: 103 feet.
 Form of Opening: Shaft. Size of Shaft: 6ft. by 8ft. Depth of Shaft: 114 feet.
 Truck mine.

East Trochu Coal Co.—Mine No. 710

Mine Office: Trochu, Alberta.
 Overman: Lloyd G. Yard.
 Mine Surveyor: David Jones.
 Location of Mine: S.E. $\frac{1}{4}$ L.S. 9, Sec. 14, Tp. 33, Rge. 23, W. 4th Mer.
 Thickness of Seam: 5 feet.
 Inclination of Seam: Horizontal.
 Thickness of Cover: 96 feet.
 Form of Opening: Drift.
 Truck mine.

Ben Pickering—Mine No. 817

Mine Office: Ghost Pine Creek, Alberta.
 Overman: Ben Pickering.
 Mine Surveyor: G. L. Kidd.
 Location: L.S. 2, Sec. 6, Tp. 31, Rge. 21, W. 4th Mer.
 Thickness of Seam: 5ft. 6in.
 Inclination of Seam: Horizontal.
 Thickness of Cover: 50 feet.
 Form of Opening: Slope. Size of Slope: 5ft. by 6ft. Depth of Slope: 100 feet.
 Truck mine.

Eric Reissig—Mine No. 921

Mine Office: Trochu, Alberta.
 Overman: E. Reissig.
 Mine Surveyor: David Jones.
 Location of Mine: L.S. 15, Sec. 14, Tp. 33, Rge. 23, W. 4th Mer.
 Thickness of Seam: 5ft. 2in.
 Inclination of Seam: Horizontal.
 Thickness of Cover: 85 feet.
 Form of Opening: Slope. Size of Slope: 7ft. by 5ft.
 Truck mine.

East Carbon Coal Co. Ltd.—Mine No. 1060

Mine Office: Carbon, Alberta.
 Overman: Ben Fox.
 Mine Surveyor: David Jones.
 Location of Mine: L.S. 12, Sec. 7, Tp. 29, Rge. 22, W. 4th Mer.
 Thickness of Seam: 4ft. 3in.
 Inclination of Seam: Horizontal.
 Thickness of Cover: 200 feet.
 Form of Opening: Slope. Size of Slope: 6ft. by 7ft. Depth of Slope: 100 feet.
 C.P.R. and Truck mine.

C. C. Campbell—Mine No. 1226

Mine Office: Trochu, Alberta.
 Overman: C. C. Campbell.
 Mine Surveyor: L. C. Stevens.
 Location of Mine: L.S. 9, Sec. 29, Tp. 33, Rge. 22, W. 4th Mer.
 Thickness of Seam: 5 feet.
 Inclination of Seam: Horizontal.
 Thickness of Cover: 135 feet.
 Form of Opening: Level drift.
 Truck mine.

Balogh Bros.—Mine No. 1359

Mine Office: Carbon, Alberta.
 Overman: Aron Balogh.
 Mine Surveyor: David Jones.
 Location of Mine: L.S. 8, Sec. 13, Tp. 29, Rge. 23, W. 4th Mer.
 Thickness of Seam: 3ft. 8in.
 Inclination of Seam: Horizontal.
 Thickness of Cover: 125 feet.
 Form of Opening: Slope. Size of Slope: 7ft. by 6ft.
 C.P.R. and Truck mine.

Nuttall & Davidson—Mine No. 1499

Mine Office: Three Hills, Alberta.
 Overman: W. W. Davidson.
 Mine Surveyor: J. R. Whigham-Teasdale.
 Location of Mine: L.S. 1, Sec. 9, Tp. 31, Rge. 22, W. 4th Mer.
 Thickness of Seam: 4½ feet.

Inclination of Seam: Horizontal.
Thickness of Cover: 8 to 25 feet.
Stripping operation. Truck mine.

W. Pastorchik & Partners—Mine No. 1538

Mine Office: Three Hills, Alberta.
Overman: W. Pastorchik.
Mine Surveyor: David Jones.
Location of Mine: L.S. 9, Sec. 9, Tp. 31, Rge. 22, W. 4th Mer.
Thickness of Seam: 4 feet.
Inclination of Seam: Horizontal.
Thickness of Cover: 16 feet.
Stripping operation. Truck mine.

Peerless Coal Co.—Mine No. 1600

Mine Office: Carbon, Alberta.
Manager: H. R. Brown.
Mine Surveyor: H. R. Brown.
Location of Mine: L.S. 2, Sec. 15, Tp. 29, Rge. 23, W. 4th Mer.
Thickness of Seam: 3ft. 9in.
Inclination of Seam: Horizontal.
Thickness of Cover: 45 to 225 feet.
Form of Opening: Slope. Size of Slope: 6½ft. by 5½ft. Depth of Slope: 214 feet.
Truck mine.

Alfred Fox—Mine No. 1629

Mine Office: Carbon Alberta.
Overman: Alfred Fox.
Mine Surveyor: David Jones.
Location of Mine: L.S. 1, Sec. 14, Tp. 28, Rge. 23, W. 4th Mer.
Thickness of Seam: 4 feet.
Inclination of Seam: Horizontal.
Thickness of Cover: 20 to 50 feet.
Form of Opening: Slope. Size of Slope: 5ft by 5ft. Depth of Slope: 50 feet.
Truck mine.

CASCADE AREA

The Canmore Mines, Ltd.—Mine No. 2

Authorized Capital: \$1,000,000.
Name of President: Edmund Hayes.
Names of Directors: E. Hayes, B. F. Crane, W. R. Stewart, A. J. McMillan, R. M. Young, L. S. Headley.
Name of Secretary: J. A. Macleod.
Name of Treasurer: Louis S. Headley.
Mine Office: Canmore, Alberta.
General Manager: R. M. Young.
Mine Manager: W. Wilson.
Mine Surveyor: C. S. Dewis.
Overmen: H. Crawford, A. Fox.
Firebosses: J. Brown, M. Carmichael, A. Knudson, A. Kowal, S. Lauhela, W. Lytkowski, V. Mrokia, A. Musgrove, H. Niskanen, J. Riva, B. Rogers, J. Wardrop.
Location of Mine: N.E. ¼ L.S. 1, Sec. 29, Tp. 24, Rge. 10, W. 5th Mer.
Thickness of Seam: 8 ft. and 10 ft.
Inclination of Seams: 10 to 35 degrees.
Thickness of Cover: Up to 2,000 feet.
Form of Opening: Slope. Size of Slope: 16ft. by 8ft. Depth of Slopes: No. 4 Seam, 2,400 feet; Stewart & Morris, 1,000 feet.
C.P.R. and Truck mine.

Frank Wheatley & Sons—Mine No. 1244

Mine Office: Banff, Alberta.
Mine Manager: Frank Wheatley.
Mine Surveyor: L. C. Stevens.
Location of Mine: L.S. 12, Sec. 4, Tp. 26, Rge. 11, W. 5th Mer.
Thickness of Seam: 9 feet.
Inclination of Seam: 40 degrees.
Thickness of Cover: 278 feet.
Form of Opening: Tunnel.
Truck mine.

CASTOR AREA

John Tyrlik—Mine No. 251

Mine Office: Heisler, Alberta.
Overman: John Tyrlik.

Mine Surveyor: David Jones.
Location of Mine: S.W. ¼ L.S. 16, Sec. 28, Tp. 42, Rge. 17, W. 4th Mer.
Thickness of Seam: 5ft. 4in.
Inclination of Seam: Horizontal.
Thickness of Cover: 70 feet.
Form of Opening: Tunnel. Size of Opening: 4ft. by 4ft. Depth of Opening: 30 feet.
Truck mine.

James Chiswick—Mine No. 291

Mine Office: Gadsby, Alberta.
Overman: James Chiswick.
Mine Surveyor: David Jones.
Location of Mine: S. ½ L.S. 11, Sec. 28, Tp. 39, Rge. 16, W. 4th Mer.
Thickness of Seam: 4ft. 6in.
Inclination of Seam: Horizontal.
Thickness of Cover: 10 to 35 feet.
Form of Opening: Slope. Size of Slope: 5ft. by 6ft. Depth of Slope: 85 feet.
Truck mine.

Max LeGear—Mine No. 447

Mine Office: Forestburg, Alberta.
Overman: Max LeGear.
Mine Surveyor: David Jones.
Location of Mine: L.S. 13, Sec. 28, Tp. 40, Rge. 15, W. 4th Mer.
Thickness of Seam: 7½ft.
Inclination of Seam: Horizontal.
Thickness of Cover: 15 to 30 feet.
Form of Opening: Shaft. Size of Shaft: 5ft. by 6ft. Depth of Shaft: 30 feet.
Truck mine.

John Sank—Mine No. 615

Mine Office: Heisler, Alberta.
Overman: John Sank.
Mine Surveyor: David Jones.
Location of Mine: L.S. 13, Sec. 22, Tp. 42, Rge. 17, W. 4th Mer.
Thickness of Seam: 6 feet.
Inclination of Seam: Horizontal.
Thickness of Cover: 90 feet.
Form of Opening: Slope. Size of Slope: 6ft. by 7ft. Depth of Slope: 60 feet.
Truck mine.

Killam Manufacturing Co., Ltd.—Mine No. 666

Mine Office: Forestburg, Alberta.
Overman: A. Dempsey.
Mine Surveyor: David Jones.
Location of Mine: L.S. 16, Sec. 2, Tp. 41, Rge. 16, W. 4th Mer.
Thickness of Seam: 6 feet.
Inclination of Seam: Horizontal.
Thickness of Cover: 20 feet.
Stripping operation. Truck mine.

O. V. Remillard—Mine No. 902

Mine Office: Castor, Alberta.
Overman: O. V. Remillard.
Mine Surveyor: David Jones.
Location of Mine: L.S. 15, Sec. 16, Tp. 33, Rge. 37, W. 4th Mer.
Thickness of Seam: 5 feet.
Inclination of Seam: Horizontal.
Thickness of Cover: 26 to 50 feet.
Form of Opening: Slope. Size of Slope: 5ft. by 6ft. Depth of Slope: 90 feet.
Truck mine.

T. Strickland & Partners—Mine No. 911

Mine Office: Heisler, Alberta.
Overman: T. Strickland.
Mine Surveyor: David Jones.
Location of Mine: L.S. 1, Sec. 33, Tp. 42, Rge. 17, W. 4th Mer.
Thickness of Seam: 4½ feet.
Inclination of Seam: Horizontal.
Thickness of Cover: 55 feet.
Form of Opening: Slope. Size of Slope: 6ft. by 6ft. Depth of Slope: 140 feet.
Truck mine.

Ben Hronek—Mine No. 913

Mine Office: Halkirk, Alberta.
 Overman: Ben Hronek.
 Mine Surveyor: David Jones.
 Location of Mine: L.S. 1, Sec. 7, Tp. 39,
 Rge. 15, W. 4th Mer.
 Thickness of Seam: 6 feet.
 Inclination of Seam: Flat.
 Thickness of Cover: 92 feet.
 Form of Opening: Slope. Size of Slope:
 6ft. by 6ft. Depth of Slope: 150 feet.
 Truck mine.

Jones & Son—Mine No. 948

Mine Office: Rosalind, Alberta.
 Overman: Wm. Jones.
 Mine Surveyor: David Jones.
 Location of Mine: L.S. 6, Sec. 8, Tp. 43,
 Rge. 17, W. 4th Mer.
 Thickness of Seam: 4½ feet.
 Inclination of Seam: Horizontal.
 Thickness of Cover: 50 feet.
 Truck mine.

Robinson Coal Mine—Mine No. 953

Mine Office: Forestburg, Alberta.
 Overman: D. H. Wiltse.
 Mine Surveyor: David Jones.
 Location of Mine: L.S. 8, Sec. 32, Tp. 40,
 Rge. 15, W. 4th Mer.
 Thickness of Seam: 9ft. 6in.
 Inclination of Seam: Horizontal.
 Thickness of Cover: 14 feet.
 Form of Opening: Shaft. Size of Shaft:
 5ft. by 5ft. Depth of Shaft: 25 feet.
 Truck mine.

J. F. Cordel—Mine No. 1046

Mine Office: Halkirk, Alberta.
 Overman: E. G. Cordel.
 Mine Surveyor: David Jones.
 Location of Mine: L.S. 6, Sec. 20, Tp. 40,
 Rge. 15, W. 4th Mer.
 Thickness of Seam: 10 feet.
 Inclination of Seam: Horizontal.
 Thickness of Cover: 50 feet.
 Form of Opening: Slope. Size of Slope:
 5ft. by 6ft. Depth of Slope: 150 feet.
 Truck mine.

Chas Strader—Mine No. 1062

Mine Office: Halkirk, Alberta.
 Overman: Chas. Strader.
 Mine Surveyor: David Jones.
 Location of Mine: L.S. 4, Sec. 17, Tp. 39,
 Rge. 15, W. 4th Mer.
 Thickness of Seam: 5½ feet.
 Inclination of Seam: Horizontal.
 Thickness of Cover: 35 to 75 feet.
 Form of Opening: Drift. Size of Drift:
 6ft. by 8ft.
 Truck mine.

Davis & Gormley—Mine No. 1232

Mine Office: Halkirk, Alberta.
 Mine Manager: Roland Davis.
 Overman: A. O'Brien.
 Mine Surveyor: David Jones.
 Location of Mine: L.S. 13, Sec. 25, Tp.
 40, Rge. 16, W. 4th Mer.
 Thickness of Seam: 6 feet.
 Inclination of Seam: Horizontal.
 Thickness of Cover: 42 feet.
 Form of Opening: Tunnel.
 Truck mine.

Ruby Glow Coal Mine—Mine No. 1237

Mine Office: Halkirk, Alberta.
 Overman: Donald Strader.
 Mine Surveyor: David Jones.
 Location of Mine: L.S. 12, Sec. 8, Tp. 39,
 Rge. 15, W. 4th Mer.
 Thickness of Seam: 5ft. 8in.
 Inclination of Seam: Horizontal.
 Thickness of Cover: 82 feet.
 Truck mine.

Thomas Mitchinson—Mine No. 1248

Mine Office: Donalda, Alberta.
 Overman: Thomas Mitchinson.

Mine Surveyor: David Jones.
 Location of Mine: L.S. 10 and 11, Sec.
 29, Tp. 41, Rge. 17, W. 4th Mer.
 Thickness of Seam: 4ft. 6in.
 Inclination of Seam: Horizontal.
 Thickness of Cover: 100 feet.
 Form of Opening: Slope. Size of Slope:
 5ft. by 5ft. Depth of Slope: 30 feet.
 Truck mine.

James Easton—Mine No. 1417

Mine Office: Castor, Alberta.
 Overman: James Easton.
 Mine Surveyor: David Jones.
 Location of Mine: N. ½ L.S. 6 and 14,
 Sec. 34, Tp. 37, Rge. 14, W. 4th Mer.
 Thickness of Seam: 5 feet.
 Inclination of Seam: Horizontal.
 Thickness of Cover: 30 feet.
 Form of Opening: Slope. Size of Slope:
 5ft. by 5ft. Depth of Slope: 125 feet.
 Truck mine.

E. Lien—Mine No. 1435

Mine Office: Edberg, Alberta.
 Overman: A. Mitchinson.
 Mine Surveyor: David Jones.
 Location of Mine: S. ½ L.S. 11, Sec. 2,
 Tp. 44, Rge. 19, W. 4th Mer.
 Thickness of Seam: 4ft. 8in.
 Inclination of Seam: Horizontal.
 Thickness of Cover: 75 feet.
 Form of Opening: Drift. Size of Drift:
 5ft. by 6ft.
 Truck mine.

J. W. Marshall—Mine No. 1441

Mine Office: Donalda, Alberta.
 Overman: J. W. Marshall.
 Mine Surveyor: J. W. Marshall.
 Location of Mine: L.S. 12, Sec. 16, Tp. 42,
 Rge. 17, W. 4th Mer.
 Thickness of Seam: 10ft. 10in.
 Inclination of Seam: Horizontal.
 Thickness of Cover: 135 feet.
 Form of Opening: Drift.
 Truck mine.

H. C. Muncy—Mine No. 1541

Mine Office: Foreman, Alberta.
 Overman: H. C. Muncy.
 Mine Surveyor: David Jones.
 Location of Mine: L.S. 15, Sec. 26, Tp. 40,
 Rge. 16, W. 4th Mer.
 Thickness of Seam: 5½ feet.
 Inclination of Seam: Horizontal.
 Thickness of Cover: 30 to 50 feet.
 Form of Opening: Shaft. Size of Shaft:
 5ft. by 6ft. Depth of Shaft: 45 feet.
 Truck mine.

Frank E. Wilkinson—Mine No. 1572

Mine Office: Donalda, Alberta.
 Overman: Nicholas Fry.
 Mine Surveyor: David Jones.
 Location of Mine: L.S. 5, Sec. 28, Tp. 41,
 Rge. 17, W. 4th Mer.
 Thickness of Seam: 5ft. 3in.
 Inclination of Seam: Horizontal.
 Thickness of Cover: 130 feet.
 Form of Opening: Drift.
 Truck mine.

Bish Bros.—Mine No. 1578

Mine Office: Forestburg, Alberta.
 Overman: John Ainsworth.
 Mine Surveyor: David Jones.
 Location of Mine: L.S. 15, Sec. 36, Tp. 40,
 Rge. 16, W. 4th Mer.
 Thickness of Seam: 8 feet.
 Inclination of Seam: Horizontal.
 Thickness of Cover: 42 feet.
 Form of Opening: Shaft. Size of shaft:
 5ft. by 8ft. Depth of Shaft: 50 feet.
 Truck mine.

J. J. Mills & Sons—Mine No. 1587

Mine Office: Heisler, Alberta.
 Overman: J. J. Mills.
 Mine Surveyor: David Jones.

Location of Mine: L.S. 5, Sec. 22, Tp. 42, Rge. 17, W. 4th Mer.
 Thickness of Seam: 6 feet.
 Inclination of Seam: Horizontal.
 Thickness of Cover: 110 feet.
 Form of Opening: Slope. Size of Slope: 7ft. by 6ft. Depth of Slope: 153 feet.
 C.N.R. and Truck mine.

**Castor Creek Collieries, Ltd.—
 Mine No. 1608**

Authorized Capital: \$150,000.
 Name of President: J. D. Henderson (deceased).
 Vice-President: D. C. Henderson.
 Names of Directors: D. C. Henderson, H. H. Albright.
 Name of Sec.-Treas.: H. H. Albright.
 Head Office: 607 Lancaster Bldg., Calgary, Alberta.
 Mine Office: Castor, Alberta.
 Mine Manager: W. G. Brown.
 Mine Surveyor: David Jones.
 Overman: R. Walker.
 Location of Mine: S.W. ½ L.S. 6, Sec. 3, Tp. 38, Rge. 14, W. 4th Mer.
 Thickness of Seam: 3 to 6 feet.
 Inclination of Seam: Horizontal.
 Thickness of Cover: 10 to 22 feet.
 Stripping operation. Truck mine.

F. N. Wiltse—Mine No. 1634

Mine Office: Halkirk, Alberta.
 Overman: F. N. Wiltse.
 Mine Surveyor: David Jones.
 Location of Mine: W. ½ L.S. 11, Sec. 32, Tp. 39, Rge. 15, W. 4th Mer.
 New mine just being opened; no particulars.

A. T. Miner—Mine No. 1639

Mine Office: Rosalind, Alberta.
 Location of Mine: L.S. 16, Sec. 4, Tp. 43, Rge. 17, W. 4th Mer.
 New mine just opened; no particulars.

CHAMPION AREA

A. M. S. McGaw—Mine No. 1509

Mine Office: Champion, Alberta.
 Overman: A. M. S. McGaw.
 Mine Surveyor: J. F. Hamilton.
 Location of Mine: L.S. 15, Sec. 33, Tp. 15, Rge. 23, W. 4th Mer.
 Thickness of Seam: 3ft. 7in.
 Inclination of Seam: Horizontal.
 Thickness of Cover: 90 feet.
 Form of Opening: Slope. Size of Slope: 5ft. by 6ft. Depth of Slope: 226 feet.
 Truck mine.

Mike Popovich—Mine No. 1565

Mine Office: Champion, Alberta.
 Overman: M. Popovitch.
 Mine Surveyor: J. F. Hamilton.
 Location of Mine: L.S. 9, Sec. 8, Tp. 16, Rge. 23, W. 4th Mer.
 Thickness of Seam: 3¼ feet.
 Inclination of Seam: Horizontal.
 Thickness of Cover: 105 feet.
 Form of Opening: Slope. Size of Slope: 5ft. by 6ft. Depth of Slope: 225 feet.
 Truck mine.

COALSPUR AREA

Sterling Collieries, Ltd.—Mine No. 769

Authorized Capital: \$500,000.
 Name of President: C. B. Munson.
 Names of Directors: C. B. Munson, H. R. Milner, W. F. Stevenson, S. W. Field, F. J. Mitchell.
 Name of Secretary-Treasurer: F. J. Mitchell.
 Head Office: 912 McLeod Building, Edmonton, Alberta.
 Mine Office: Sterco, Alberta.
 General Manager: W. F. Stevenson.
 Overman: J. A. Holroyd.

Mine Surveyors: W. F. Stevenson, R. H. Watson.
 Location of Mine: L.S. 12, Sec. 35, Tp. 47, Rge. 20, W. 5th Mer.
 Thickness of Seam: 180 feet.
 Thickness of Cover: 15 feet.
 Form of Opening: Open pit.
 Mine located on C.N.R.

**The Foothills Collieries, Ltd.—
 Mine No. 771**

Authorized Capital: \$300,000.
 Name of President: A. E. Windatt.
 Name of Directors: E. H. Bennest, H. Wallace, C. D. Shepard, F. Andrews, Hon. S. R. Vereker.
 Name of Sec.-Treas.: F. Andrews.
 Mine Office: Foothills, Alberta.
 General Manager: A. E. Windatt.
 Mine Manager: Wm. Morris.
 Mine Surveyor: L. C. Stevens.
 Overman: E. Griffiths.
 Firebosses: J. E. Mitchell, R. Tompkins, E. Richards, W. Gregory.
 Location of Mine: L.S. 10, Sec. 24, Tp. 47, Rge. 20, W. 5th Mer.
 Thickness of Seam: 8ft. 9in.
 Inclination of Seam: 20 to 22 degrees.
 Thickness of Cover: 400 feet.
 Form of Opening: Slope. Size of Slope: 10ft. Depth of Slope: 1,900 feet.
 Mine located on C.N.R.

Lakeside Coals, Ltd.—Mine No. 775

Authorized Capital: \$660,000.
 Name of President: E. A. McBain.
 Names of Directors: E. A. McBain, W. W. McBain, W. A. McBain.
 Name of Sec.-Treas.: W. A. McBain.
 Head Office: Edmonton, Alberta.
 Mine Office: Robb, Alberta.
 General Manager: Wm. Foster.
 Mine Surveyor: Wm. Foster.
 Mine Manager: Dan Jones.
 Firebosses: W. Birrell, Wm. Thirlwell, H. Rhodes.
 Location of Mine: S.W. ¼ Sec. 14, Tp. 49, Rge. 21, W. 5th Mer.
 Thickness of Seam: 5ft. 6in.
 Inclination of Seam: 34 degrees.
 Thickness of Cover: 800 feet.
 Form of Opening: Slope. Size of Slope: 7ft. by 11ft. Depth of Slope: 400 feet.
 Mine on C.N.R.

**McLeod River Hard Coal Co. (1941), Ltd.
 —Mine No. 846**

Authorized Capital: \$50,000.
 Name of President: J. A. Boyd.
 Names of Directors: J. A. Boyd, R. W. Steele, Arthur Cross, George Kidd, C. J. Cockshutt.
 Name of Secretary: H. S. Causby.
 Name of Comptroller: P. S. Fagan.
 Head Office: Toronto, Ont.
 Mine Office: Mercoal, Alberta.
 General Manager: H. R. Plommer.
 Mine Manager: L. G. Chavignaud.
 Mine Surveyor: L. G. Chavignaud.
 Overmen: J. Rochester, J. McLellan.
 Firebosses: R. Deere, H. McQueen, J. Parry, J. Lidgett, J. Keef, Mr. Celli, E. Fregren, J. Herpshaw, J. Price, A. Reynolds.
 Location of Mine: Secs. 24, 25, 26, Tp. 48, Rge. 22, W. 5th Mer.
 Thickness of Seam: 11ft. 8in.
 Inclination of Seam: 35 degrees.
 Thickness of Cover: Up to 620 feet.
 Form of Opening: Slope. Size of Slope: 8ft. by 15ft. Depth of Slope: 1,300 feet.
 Mine on C.N.R.

**Coal Valley Mining Co., Ltd.—
 Mine No. 1002**

Authorized Capital: \$1,000,000.
 Name of President: (Mrs.) Annette L. Barry.
 Name of Directors: C. E. Davignon, W. J. Dick, G. A. Thibault, R. Steele, An-

nette L. Barry, Hon. A. Blais, A. J. McCormack, G. Ryan.
 Name of Sec.-Treas.: W. C. Willetts.
 Head Office: 705 McLeod Building, Edmonton, Alberta.
 Mine Office: Coal Valley, Alberta.
 General Manager: W. J. Dick.
 Mine Manager: A. A. Fraser.
 Mine Surveyor: A. A. Fraser.
 Location of Mine: L.S. 16, Sec. 26, Tp. 47, Rge. 20, W. 5th Mer.
 Thickness of Seam: Open pit.
 Inclination of Seam: Varies.
 Form of Opening: Open pit mine.
 Stripping operation on C.N.R.

Bryan Hard Coal, Ltd.—Mine No. 1157
 Authorized Capital: \$200,000.
 Name of President: A. M. Matheson.
 Name of Directors: D. Millar, B. A. Ogilvie.
 Name of Sec.-Treas.: G. W. Finlay.
 Head Office: 309 Agency Bldg., Edmonton, Alberta.
 Mine Office: Robb, Alberta.
 Overman: D. Millar.
 Mine Surveyor: L. C. Stevens.
 Location of Mine: L.S. 13, Sec. 15, Tp. 39, Rge. 21, W. 5th Mer.
 Thickness of Seam: 10 feet.
 Inclination of Seam: 36 degrees.
 Thickness of Cover: 350 feet.
 Form of Opening: Slope. Size of Slope: 7ft. by 12ft. Depth of Slope: 650 feet.
 Mine located on C.N.R.

CROWSNEST AREA

West Canadian Collieries, Ltd.—Mine No. 87
 Authorized Capital: \$3,600,000.
 Name of President: Edouard Rasson.
 Names of Directors: A. E. Whitmore, Hon. Chas. Dunning, De Gaspe Beaubien, J. A. Brusset.
 Name of Sec.-Treas.: Georges Labyt.
 Head Office: 833 Salisbury House, London, E.C. 2, England.
 Mine Office: Bellevue, Alberta.
 General Manager: A. A. Millar.
 Mine Manager: M. H. Congdon.
 Mine Surveyors: L. M. Dwarakin, R. G. Foote.
 Overmen: D. Rees, G. W. Goodwin, D. Hutton, H. Kaye, A. Goodwin.
 Firebosses: S. Comin, C. Wollney, J. Michayluk, J. R. McLeod, J. Radford, W. Prescott, U. Morris, G. Cousins, A. Grant, C. Young, J. Budda, W. Alexander, J. C. Walsh, A. Emmerson.
 Location of Mine: L.S. 10, Sec. 20, Tp. 7, Rge. 3, W. 5th Mer.
 Thickness of Seam: 12 feet.
 Inclination of Seam: 10 to 48 degrees.
 Thickness of Cover: 775 feet.
 Form of Opening: Adit level.
 Mine located on C.P.R.

International Coal & Coke Co., Ltd.—Mine No. 88
 Authorized Capital: \$3,000,000.
 Name of President: Lorne A. Campbell.
 Names of Directors: L. A. Campbell, A. L. Johansson, James Buchanan, H. Davidson, James Black, G. M. Warren, H. A. Howard, W. M. Lindsay.
 Name of Secretary: P. A. Dickleson.
 Name of Treasurer: J. Emmerson.
 Mine Office: Coleman, Alberta.
 General Manager: J. J. McIntyre.
 Mine Manager: James Kellock.
 Mine Surveyor: H. E. Hewitt.
 Overman: A. J. Brown.
 Firebosses: J. V. Fraser, N. Fleming, B. Bond, A. Jones, J. Moore, A. Tiberghin, A. J. Phillips, J. Kubin, J. Marconi, T. Mitchell, T. Donaldson, G. Marconi, B. Fontana, L. C. Richards.
 Location of Mine: L.S. 11, Sec. 8, Tp. 8, Rge. 4, W. 5th Mer.

Thickness of Seam: 12 feet.
 Inclination of Seam: 30 degrees.
 Thickness of Cover: 2,000 feet.
 Form of Opening: Slope. Size of Slope: 12ft. by 8ft. Depth of Slope: 3,000 ft.
 C.P.R. and Truck mine.

Hillcrest-Mohawk Collieries, Ltd.—Mine No. 133
 Authorized Capital: \$1,250,000.
 Name of President: Frank P. Turville.
 Names of Directors: F. P. Turville, E. Richardson, A. Johnston, M. Graves, F. J. Harquail, C. Kemp.
 Name of Secretary: Frank J. Harquail.
 Name of Treasurer: Erick Richardson.
 Head Office: Calgary, Alberta.
 Mine Office: Bellevue, Alberta.
 General Superintendent: D. B. Young.
 Mine Manager: Henry Miller.
 Mine Surveyor: A. E. Graham.
 Overmen: J. Ironmonger, J. Curry, J. Shearer.
 Firebosses: J. McDade, R. Clarke, A. White, L. Luini, J. Griffiths, J. Dudley, J. Maddison, A. Bianchini, M. Bianchini, R. Kerr, S. Lesson, J. Gresl.
 Location of Mine: Sec. 21, Tp. 7, Rge. 3, W. 5th Mer.
 Thickness of Seam: 6½ ft. to 11ft.
 Inclination of Seam: 16 to 78 degrees.
 Thickness of Cover: 800 feet.
 Form of Opening: Level Drift.
 C.P.R. and Truck mine.

Matt Wood—Mine No. 199
 Mine Office: Beaver Mines, Alberta.
 Overman: M. Wood.
 Mine Surveyor: Fred Utley.
 Location of Mine: L.S. 10, Sec. 3, Tp. 6, Rge. 2, W. 5th Mer.
 Thickness of Seam: 7 feet.
 Inclination of Seam: 20 degrees.
 Thickness of Cover: 70 feet.
 Form of Opening: Drift.
 Truck mine.

McGillivray Creek Coal & Coke Co., Ltd.—Mine No. 204
 Authorized Capital: \$3,000,000.
 Name of President: Lorne A. Campbell.
 Names of Directors: L. A. Campbell, H. A. Thoeny, H. A. Howard, G. M. Warren, W. M. Lindsay, A. L. Johansson.
 Name of Sec.-Treas.: S. C. Short.
 Mine Office: Coleman, Alberta.
 General Manager: J. J. McIntyre.
 Mine Manager: L. M. McDonald.
 Mine Surveyor: A. E. Graham.
 Overmen: H. Hulbert and J. Jackson, Sr.
 Firebosses: E. Allen, A. Beveridge, A. Galbraith, W. Hopkins, A. Hughes, I. A. James, W. Lonsbury, R. Morris, A. McCulloch, R. Parry, P. Smith, J. McCulloch, J. Urwin, W. Urwin.
 Location of Mine: S.W. ¼ L.S. 2, Sec. 17, Tp. 8, Rge. 4, W. 5th Mer.
 Thickness of Seam: 9 feet.
 Inclination of Seam: 35 degrees.
 Thickness of Cover: 1,600 feet.
 Form of Opening: Slope. Size of Slope: 8ft. by 12ft. Depth of Slope: 4,500 ft.
 Mine located on C.P.R.

West Canadian Collieries, Ltd.—Mine No. 396
 Same particulars as for Mine No. 87.
 Mine Office: Blairmore, Alberta.
 Mine Manager: H. H. Gardner.
 Mine Surveyor: T. E. Morgan.
 Overmen: M. T. Hamilton, R. Blake, J. Davies, R. Oakes, R. Tonge.
 Firebosses: S. Patterson, W. North, C. C. Millar, Wm. Patterson, S. Price, C. Cartwright, J. Paterson, R. Draper, D. McLafferty, A. Tiberghin, A. Rae, E. Blas, J. McLissac, M. Trevethin, R. T. Blake, R. Shaw.
 Location of Mine: L.S. 10, Sec. 2, Tp. 8, Rge. 4, W. 5th Mer.

Thickness of Seam: 5 to 16 feet.
Inclination of Seam: 40 degrees.
Thickness of Cover: 1,000 feet.
Form of Opening: Adit level.
Mine located on C.P.R.

**West Canadian Collieries, Ltd.—
Mine No. 1584**

Same particulars as for Mine No. 87.
Mine Manager: W. Goodwin.
Pit Boss: C. P. McDonald.
Fireboss: K. McDonald.
Location of Mine: L.S. 15, Sec. 31, Tp. 6,
Rge. 3, W. 5th Mer.

T. O. Neumann—Mine No. 1623

Mine Office: Pincher Creek, Alberta.
Overman: Frank Batchelor.
Location of Mine: L.S. 6, Sec. 11, Tp. 5,
Rge. 1, W. 5th Mer.
Form of Opening: Adit. Size of Slope:
6ft. by 6ft. Depth of Slope: 70 feet.
Truck mine.

DRUMHELLER AREA

Rosedale Collieries, Ltd.—Mine No. 346

Authorized Capital: 20,000 shares, no par value.
Name of President: John R. Brodie.
Names of Directors: J. R. Brodie, B. C. Parker, H. F. Liggins, F. H. Nord, J. F. Harvie.
Name of Secretary-Treasurer: J. Frank Harvie.
Head Office: 909 Lancaster Building, Calgary, Alberta.
Mine Office: Rosedale, Alberta.
General Manager: Russell Richards.
Mine Manager: T. Rappell.
Overmen: D. Bradshaw and Wm. Jones.
Mine Surveyor: R. Richards.
Firebosses: W. S. Appleby, J. Zambo, A. Sladek, S. Berlando, W. Roberts, J. Strecker.
Location of Mine: L.S. 14, Sec. 28, Tp. 28, Rge. 19, W. 4th Mer.
Thickness of Seam: 4 to 5 feet.
Inclination of Seam: Horizontal.
Thickness of Cover: 450 feet.
Form of Opening: Shaft. Size of Shaft: 11ft. by 15ft. Depth of Shaft: 45 ft.
Mine located on C.N.R.

**Midland Coal Mining Co. Ltd.—
Mine No. 367**

Authorized Capital: \$50,000.
Name of President: Mrs. Lois McMullen.
Names of Directors: Mrs. S. L. McMullen, G. T. Richards, W. R. Sandercock.
Name of Secretary: S. G. McMullen.
Head Office: Midlandvale, Alberta.
Mine Office: Midlandvale, Alberta.
General Manager: G. T. Richards.
Mine Manager: A. G. Macaulay.
Overman: George Nicol.
Mine Surveyor: A. G. Macaulay.
Firebosses: M. Bobrosky, A. McKinnon, H. Looten, T. Gibson, J. Oxbury, J. Pettit, J. Jubbs, W. Holowatiuk.
Location of Mine: L.S. 10 and 11, Sec. 9, Tp. 29, Rge. 20, W. 4th Mer.
Thickness of Seam: 5½ feet.
Inclination of Seam: Horizontal.
Thickness of Cover: Up to 520 feet.
Form of Opening: Shaft. Size of Shaft: 9ft. by 19ft. Depth of Shaft: 135 feet.
Mine located on C.N.R.

**Red Deer Valley Coal Co., Ltd.—
Mine No. 402**

Authorized Capital: \$347,100.
Name of President: Wm. S. Howland.
Names of Directors: Wm. S. Howland, Miss E. Howland, H. J. Scott.
Name of Sec.-Treas.: H. J. Scott.
Head Office: Drumheller, Alta.
Mine Office: Nacmire, Alta.
General Manager: H. J. Scott.
Mine Manager: I. Potter.
Overmen: George Lavis, J. Barrie.

Mine Surveyor: Gordon L. Kidd.
Firebosses: R. Claek, G. Cumberford, A. Courterelle, C. Atkinson, P. Goods, H. G. Ruffee, A. Hansen.
Location of Mine: N.E. ¼ Rd. Allow. Sec. 7, Tp. 29, Rge. 20, W. 4th Mer.
Thickness of Seam: 5ft. to 6ft.
Inclination of Seam: Horizontal.
Thickness of Cover: 180 to 550 feet.
Form of Opening: Shaft and Slope: Size of Shaft: 15ft. by 8ft. Depth of Shaft: 185 feet. Size of Slope: 11ft. by 7ft. Depth of Slope: 170 to 650 feet.
Mine located on C.P.R.

Commander Coal Co.—Mine No. 422

Name of President: Dr. O. H. Patrick.
Name of Sec.-Treas.: Brig. L. Patrick.
Head Office: Calgary, Alberta.
Mine Office: Drumheller, Alberta.
Mine Manager: H. Wilton-Clark.
Mine Surveyor: H. Wilton-Clark.
Mine Overman: D. Mayoh.
Firebosses: W. Morse, R. Halbert, W. Dropko, J. Page, R. Raisbeck, A. Thomson.
Location of Mine: L.S. 5, Sec. 9, Tp. 29, Rge. 20, W. 4th Mer.
Thickness of Seam: 5 feet.
Inclination of Seam: Horizontal.
Thickness of Cover: 150 feet.
Form of Opening: Shaft. Size of Shaft: 12ft. by 20ft. Depth of Shaft: 166 ft.
Mine located on C.P.R.

**Rosedale Collieries, Ltd. (Star Mine)
—Mine No. 436**

Same particulars as for No. 346.
Mine Office: Aerial, Alberta.
Manager: W. Hibbert.
Overman: D. Jones.
Firebosses: I. C. Radocy, E. Davies, T. Sirko, K. Radocy, C. Levesque.
Location of Mine: S.E. ¼ L.S. 7, Sec. 28, Tp. 28, Rge. 19, W. 4th Mer.
Thickness of Seam: 5½ feet.
Inclination of Seam: Horizontal.
Thickness of Cover: 150 feet.
Form of Opening: Level. Size of Opening: 6ft. by 9ft.
Mine located on C.N.R.

Newcastle Collieries, Ltd.—Mine No. 620

Authorized Capital: \$300,000.
Name of President: Wilson Gouge.
Names of Directors: Mrs. R. E. Coyle, James Dewar, Jesse Gouge, Willson Gouge.
Name of Secretary-Treasurer: Jesse Gouge.
Head Office: Drumheller, Alberta.
Mine Office: Newcastle, Alberta.
General Manager: Jesse Gouge.
Mine Manager: J. Robertson.
Mine Surveyor: J. Robertson.
Overman: J. McCutcheon.
Firebosses: W. Henry, A. Armstrong, C. Dunn, J. Farmer, R. Forshaw, E. Harris.
Location of Mine: L.S. 14, Sec. 3, Tp. 29, Rge. 20, W. 4th Mer.
Thickness of Seam: 5 feet.
Inclination of Seam: Horizontal.
Thickness of Cover: 230 feet.
Form of Opening: Shaft. Size of Shaft: 8ft. by 11ft. 10½in. Depth of Shaft: 110 feet.
Mine located on C.N.R.

Maize Leaf Minerals, Ltd.—Mine No. 728

Authorized Capital: \$500,000.
Name of President: Wilson Gouge.
Names of Directors: Wilson Gouge, Jesse Gouge, Helen Gibson.
Name of Secretary-Treasurer: Jesse Gouge.
Head Office: Drumheller, Alberta.
Mine Office: Willow Creek P.O., Alberta.
General Manager: Jesse Gouge.
Mine Manager: Arch. K. Burrell.
Mine Surveyor: Allan Hamilton.
Overman: Arch. K. Burrell.

Fireboss: Frank Kane.
Location of Mine: L.S. 13, Sec. 32, Tp. 27, Rge. 18, W. 4th Mer.
Thickness of Seam: 5ft. 6in.
Inclination of Seam: Horizontal.
Thickness of Cover: 200 feet.
Form of Opening: Drift.
Mine located on C.P.R.

Ideal Coal Co., Ltd.—Mine No. 844
Authorized Capital: \$150,000.
Name of President: Thomas M. McGuckie.
Name of Directors: M. Bender, M. McGuckie.
Name of Sec.-Treas.: Mildred Bender.
Mine Office: Wayne, Alberta.
Name of Manager: Thomas M. McGuckie.
Mine Surveyor: Alex. Higgins.
Overman: Nick Surrendi.
Firebosses: Mike White, Martin McGuckie.
Location of Mine: L.S. 16, Sec. 1, Tp. 28, Rge. 20, W. 4th Mer.
Thickness of Seam: 6 feet.
Inclination of Seam: Horizontal.
Thickness of Cover: 400 feet.
Form of Opening: Slope. Size of Slope: 7ft. by 14ft. Depth of Slope: 100 ft.
Mine located on C.N.R.

O. W. Whittaker—Mine No. 1117
Mine Office: Beynon, Alberta.
Mine Manager: O. W. Whittaker.
Mine Surveyor: Gordon L. Kidd.
Location of Mine: L.S. 5, Sec. 6, Tp. 27, Rge. 20, W. 4th Mer.
Thickness of Seam: 3ft. 8in.
Inclination of Seam: Horizontal.
Thickness of Cover: 20 feet.
Form of Opening: Slope.
Truck mine.

Brilliant Coal Company—Mine No. 1258
Mine Office: Drumheller, Alberta.
Mine Manager: R. Dunn.
Overman: J. Saunt.
Mine Surveyor: Gordon L. Kidd.
Firebosses: J. Clozza, J. Wakaruk, T. McNeil, R. Stocco.
Location of Mine: L.S. 15, Sec. 10, Tp. 29, Rge. 20, W. 4th Mer.
Thickness of Seam: 6 feet.
Inclination of Seam: Horizontal.
Thickness of Cover: 400 to 450 feet.
Form of Opening: Shaft and slope. Size of shaft: 8ft. by 12ft. Depth of Shaft: 120 feet. Size of Slope: 6ft. by 8ft. Depth of Slope: 450 feet.
Mine located on C.N.R.

Saskatchewan Federated Co-operatives, Ltd.—Mine No. 1299
Authorized Capital: \$50,000.
Name of President: Geo. Urwin.
Name of Secretary: Robert McKay.
Name of Treasurer: H. L. Smith.
Head Office: Saskatoon, Saskatchewan.
Mine Office: East Coulee, Alberta.
General Manager: Robert McKay.
Mine Manager: W. Barclay.
Mine Surveyor: Gordon L. Kidd.
Overman: John Young.
Firebosses: Wm. McFegan, Michael Otrasek.
Location of Mine: L.S. 2, Sec. 32, Tp. 27, Rge. 18, W. 4th Mer.
Thickness of Seam: 6 feet.
Inclination of Seam: Horizontal.
Thickness of Cover: 300 feet.
Form of Opening: Drift 6½ft. by 13ft. Slope. Size of Slope: 6ft. by 8ft. Depth of Slope: 300 feet.
Mine located on C.P.R.

Hy-Grade Coal Mining Co., Ltd.—Mine No. 1421
Authorized Capital: \$100,000.
Name of President: Robert McKay.
Names of Directors: R. MacKay, Geo. Urwin, F. J. Whitlock.

Name of Secretary-Treasurer: F. J. Whitlock.
Mine Office: Drumheller, Alberta.
Mine Manager: John T. Burton.
Overman: P. J. Murphy.
Mine Surveyor: A. G. Macaulay.
Firebosses: W. Menzies, N. Blackett, G. Wheatcroft, J. Owen, J. Taylor, G. Unsworth, F. Ellison, F. Keough.
Location of Mine: L.S. 13, Sec. 11, Tp. 29, Rge. 20, W. 4th Mer.
Thickness of Seam: 3½ to 9 feet.
Inclination of Seam: Horizontal.
Thickness of Cover: 400 feet.
Form of Opening: Shaft. Size of Shaft: 8ft. by 15ft. Depth of Shaft: 88 feet.
Mine located on C.N.R.

The Monarch Coal Mining Co., Ltd.—Mine No. 1473

Authorized Capital: \$102,500.
Name of President: E. A. Lovett.
Names of Directors: E. A. Lovett, H. R. Narraway, O. I. Gilbert, T. C. Boyd, Donald Macneil.
Name of Sec.-Treas.: H. R. Narraway.
Head Office: Calgary, Alberta.
Mine Office: Drumheller, Alberta.
General Manager: E. A. Lovett.
Mine Manager: T. Campbell.
Mine Surveyor: A. Wilson.
Overman: W. McDonald.
Firebosses: F. Simpson, G. Anderson, E. Marsh, A. Black, J. Fulton, H. Robarts.
Location of Mine: L.S. 7, Sec. 8, Tp. 29, Rge. 20, W. 4th Mer.
Thickness of Seam: 5ft. to 6ft.
Inclination of Seam: Undulating.
Thickness of Cover: Up to 550 feet.
Form of Opening: Slope. Size of Slope: 6ft. by 9ft. Depth of Slope: 150 feet.
Mine on C.P.R.

Regal Coal Co., Ltd. (Atlas Coal Mine)—Mine No. 1484

Authorized Capital: \$20,000.
Name of President: Dr. O. H. Patrick.
Name of Sec.-Treas.: Brig. L. Patrick.
Head Office: 807 Lancaster Bldg., Calgary, Alberta.
Mine Office: East Coulee, Alberta.
General Manager: Brig. L. Patrick.
Mine Manager: A. Wilson.
Overman: John Gallagher.
Mine Surveyor: Andrew Wilson.
Firebosses: Jas. Raisbeck, John Bachynski, Alfred Andrew, James Tennant, Carl Marshall.
Location of Mine: L.S. 13, Sec. 21, Tp. 27, Rge. 18, W. 4th M.
Thickness of Seam: 5ft. 2in.
Inclination of Seam: Flat (slightly undulating).
Thickness of Cover: 350 feet.
Form of Opening: Drift.
Mine on C.P.R.

Murray Collieries, Ltd.—Mine No. 1491

Authorized Capital: \$100,000.
Name of President: H. K. Reed.
Names of Directors: H. K. Reed, H. H. McVeigh.
Name of Secretary-Treasurer: H. K. Reed.
Mine Office: East Coulee, Alberta.
General Manager: H. H. McVeigh.
Mine Manager: Hugh G. McKinnon.
Overman: T. McDonald.
Mine Surveyor: Gordon L. Kidd.
Firebosses: J. Cotterill, R. Steven, Robt. Stevenson, Wm. Shephard, Robt. Anderson, Stanley Mather.
Location of Mine: S.E. ¼, Sec. 29, Tp. 27, Rge. 18, W. 4th Mer.
Thickness of Seam: 5½ feet.
Inclination of Seam: Horizontal.
Thickness of Cover: 300 feet.
Form of Opening: Tunnel. Size of Opening: 6ft. by 12 ft.
Mine on C.P.R.

Western Gem & Jewel Collieries, Ltd.
—Mine No. 1493

Authorized Capital: \$750,000.
 Name of President: Alex. Robertson.
 Names of Directors: W. P. Gamble, R. K. Northey, D. C. Henderson, D. M. Henderson, A. Robertson, H. H. Albright.
 Name of Sec.-Treas.: H. H. Albright.
 Head Office: 607 Lancaster Bldg., Calgary, Alberta.
 Mine Office: Cambria, Alberta.
 General Manager: D. C. Henderson.
 Mine Manager: N. Howells.
 Mine Surveyor: Nathaniel Howells.
 Overman: T. Gordon.
 Firebosses: F. Zaputil, R. Niblett, J. Kusnir, W. Young, W. Kay.
 Location of Mine: L.S. 6 and 7, Sec. 15, Tp. 28, Rge. 19, W. 4th Mer.
 Thickness of Seam: 5 feet.
 Inclination of Seam: Horizontal.
 Thickness of Cover: 400 feet.
 Form of Opening: Adit.
 Mine located on C.P.R.

Aetna Coal Co.—Mine No. 1511

Mine Office: East Coulee, Alberta.
 Overman: P. M. Ramsay.
 Mine Surveyor: Gordon L. Kidd.
 Location of Mine: L.S. 1, Sec. 22, Tp. 28, Rge. 19, W. 4th Mer.
 Thickness of Seam: 7ft. 4in.
 Inclination of Seam: Horizontal.
 Thickness of Cover: 150 feet.
 Form of Opening: Drift.
 Mine on C.P.R.

The Minute Coal Co.—Mine No. 1520

Name of Secretary-Treasurer: J. A. McKenzie.
 Mine Office: Drumheller, Alberta.
 General Manager: J. A. McKenzie.
 Overman: B. T. Brooks.
 Mine Surveyor: A. G. Macaulay.
 Location of Mine: L.S. 7, Sec. 14, Tp. 29, Rge. 20, W. 4th Mer.
 Thickness of Seam: 5½ feet.
 Inclination of Seam: Horizontal.
 Thickness of Cover: 200 feet.
 Form of Opening: Tunnel. Size of Tunnel: 5ft. by 6ft.
 C.N.R. and Truck mine.

Castle Coal Co., Ltd.—Mine No. 1544

Mine Office: Wayne, Alberta.
 Overman: J. Clyne.
 Mine Surveyor: D. Jones.
 Location of Mine: L.S. 16, Sec. 7, Tp. 28, Rge. 19, W. 4th Mer.
 Thickness of Seam: 9ft.
 Inclination of Seam: Horizontal.

Sovereign Coal Co., Ltd.—Mine No. 1570

Mine Office: Wayne, Alberta.
 General Manager: J. Redpath.
 Overman: J. Redpath.
 Mine Surveyor: A. G. Macaulay.
 Location of Mine: N.E. ¼ L.S. 8, Sec. 7, Tp. 28, Rge. 19, W. 4th Mer.
 Thickness of Seam: 8 feet.
 Inclination of Seam: Horizontal.
 Thickness of Cover: 300 feet.
 Form of Opening: Slope. Size of Slope: 8ft. by 6ft. Depth of Slope: 38 feet.
 Mine on C.N.R.

The Monarch Coal Mining Co., Ltd.
—Mine No. 1573

Same particulars as for Mine No. 1473.
 Mine Office: East Coulee, Alberta.
 Mine Surveyor: A. Wilson.
 Overman: J. Harries.
 Firebosses: R. Cowan, P. Melson, P. Hutchison.
 Location of Mine: S.E. ¼ Sec. 20, Tp. 27, Rge. 18, W. 4th Mer.
 Thickness of Seam: 4½-5 feet.
 Inclination of Seam: Undulating.
 Thickness of Cover: Up to 400 feet.

Form of Opening: Drift. Size of Opening: 6ft. by 10ft.
 Mine on C.P.R.

Arcadia Coal Mines, Ltd.—Mine No. 1589

Name of President: B. K. Bullock.
 Name of Sec.-Treas.: J. V. H. Milvain.
 Head Office: 405 McLean Block, Calgary, Alberta.
 Mine Office: East Coulee, Alberta.
 General Manager: B. K. Bullock.
 Mine Manager: Peter Barclay.
 Mine Surveyor: Gordon L. Kidd.
 Firebosses: J. Metcalf, Alfred Wolff.
 Location of Mine: L.S. 16, Sec. 7, Tp. 28, Rge. 18, W. 4th Mer.
 Thickness of Seam: 3 feet.
 Inclination of Seam: Horizontal.
 Thickness of Cover: 300 feet.
 Form of Opening: Level entry.
 Mine located on C.N.R.

H. S. Chambers—Mine No. 1599

Mine Office: Drumheller, Alberta.
 Overman: H. S. Chambers.
 Mine Surveyor: A. G. Macaulay.
 Location of Mine: Sec. 22, Tp. 28, Rge. 18, W. 4th Mer.
 Thickness of Seam: 3 feet.
 Inclination of Seam: Horizontal.
 Stripping operation. Truck mine.

EDMONTON AREA**E. Woytowich & M. Pozniak—**
Mine No. 29

Mine Office: Rabbit Hill, Alberta.
 Overman: L. Scott.
 Mine Surveyor: L. C. Stevens.
 Location of Mine: L.S. 11, Sec. 25, Tp. 51, Rge. 25, W. 4th Mer.
 Thickness of Seam: 4½ feet.
 Inclination of Seam: Horizontal.
 Thickness of Cover: 150 feet.
 Form of Opening: Slope. Size of Slope: 7ft. by 7ft. Depth of Slope: 60 feet.
 Truck mine.

Ottewell Coal Co.—Mine No. 91

Authorized Capital: \$10,000.
 Mine Office: Clover Bar, Alberta.
 General Manager: W. Ottewell.
 Overman: Sam Finlay.
 Mine Surveyor: L. C. Stevens.
 Location of Mine: S.W. ¼ L.S. 4, Sec. 17, Tp. 53, Rge. 23, W. 4th Mer.
 Thickness of Seam: 4 feet.
 Inclination of Seam: Horizontal.
 Thickness of Cover: 80 feet.
 Form of Opening: Shaft. Size of Shaft: 8ft. by 10 ft. Depth of Shaft: 85 feet.
 Truck mine.

Great West Coal Co., Ltd.—Mine No. 99

Authorized Capital: \$150,000.
 Name of President: A. C. Dunn.
 Names of Directors: A. C. Dunn, Mayne Reid, W. S. Cupples.
 Name of Secretary-Treasurer: Thomas S. Campbell.
 Head Office: 10117 100A St., Edmonton, Alberta.
 Mine Office: Clover Bar, Alberta.
 General Manager: A. C. Dunn.
 Mine Manager: Robert Dalziel.
 Mine Surveyor: A. C. Dunn.
 Overman: Angus Park.
 Firebosses: J. Reed, R. Chalmers, W. Dalzell, W. Thomson, G. Muir.
 Location of Mine: S.E. ¼ L.S. 10, Sec. 7, Tp. 53, Rge. 23, W. 4th Mer.
 Thickness of Seam: 4 to 6½ feet.
 Thickness of Cover: 130 to 210 feet.
 Inclination of Seam: Horizontal.
 Form of Opening: Two slopes and two shafts. Size of Main Slope: 10ft. by 6ft. Depth of Slope: 132 feet.
 C.N.R. and Truck Mine.

Sundance Mines, Ltd.—Mine No. 129

Authorized Capital: \$20,000.
 Name of President: Paul H. Cote.
 Name of Directors: Paul H. Cote, Cyril Tucker.
 Name of Sec.-Treas.: E. E. Bishop.
 Mine Office: Cardiff, Alberta.
 Overman: P. H. Cote.
 Mine Surveyor: L. C. Stevens.
 Location of Mine: L.S. 16, Sec. 23, Tp. 55, Rge. 25, W. 4th Mer.
 Thickness of Seam: 8 feet.
 Inclination of Seam: Horizontal.
 Thickness of Cover: 35 feet.
 Open pit. Truck mine.

Banner Coals, Ltd.—Mine No. 428

Authorized Capital: \$20,000.
 Name of President: H. O. Patriquin.
 Name of Directors: E. A. Mills and J. B. Starky.
 Name of Sec.-Treas.: E. A. Mills.
 Head Office: 10631 92nd St., Edmonton, Alberta.
 Mine Office: Carbondale, Alberta.
 General Manager: J. B. Starky.
 Mine Manager: James M. Clyne.
 Mine Surveyor: L. C. Stevens.
 Overman: Dave Muir.
 Firebosses: Nels Nielsen, Dave Watson, Charles Crawford.
 Location of Mine: L.S. 10, Sec. 8, Tp. 55, Rge. 24, W. 4th Mer.
 Thickness of Seam: 5 feet.
 Inclination of Seam: Horizontal.
 Thickness of Cover: 174 feet.
 Form of Opening: Shaft. Size of Shaft: 15ft. by 9ft. Depth of Shaft: 174 feet.
 Truck mine and on Northern Alberta Ry.

Dolinski & Partners—Mine No. 1034

Mine Office: Edmonton South, Alberta.
 Overman: H. Molzan.
 Mine Surveyor: L. C. Stevens.
 Location of Mine: L.S. 6, Sec. 25, Tp. 51, Rge. 25, W. 4th Mer.
 Thickness of Seam: 4½ feet.
 Inclination of Seam: Horizontal.
 Thickness of Cover: 139 feet.
 Form of Opening: Slope. Size of Slope: 7ft. by 6ft. Depth of Slope: 200 feet.
 Truck mine.

Long Coal Co. Ltd.—Mine No. 1098

Authorized Capital: \$18,000.
 Name of President: M. L. Vitally.
 Name of Director: A. F. Duncan.
 Name of Sec.-Treas.: Mrs. M. L. Vitally.
 Mine Office: Namao, Alberta.
 Overman: M. L. Vitally.
 Mine Surveyor: L. C. Stevens.
 Location of Mine: L.S. 3 and 4, Sec. 31, Tp. 54, Rge. 24, W. 4th Mer.
 Thickness of Seam: 6 to 8 feet.
 Inclination of Seam: Horizontal.
 Form of Opening: Tunnel.
 Truck mine.

Mike Sinoski—Mine No. 1233

Mine Office: South Edmonton.
 Overman: Stephen Sinoski.
 Mine Surveyor: L. C. Stevens.
 Location of Mine: L.S. 5, Sec. 25, Tp. 51, Rge. 25, W. 4th M.
 Thickness of Seam: 4½ feet.
 Inclination of Seam: Horizontal.
 Thickness of Cover: 30 to 100 feet.
 Form of Opening: Slope. Size of Slope: 7ft. by 5½ft. Depth of Slope: 84 feet.
 Truck mine.

Edmonton Collieries, Ltd.—Mine No. 1266

Authorized Capital: \$20,000.
 Name of President: W. Gordon MacKay.
 Names of Directors: William G. MacKay, C. C. Down.
 Name of Sec.-Treas.: Harold W. Lawton.
 Head Office: 10055 101st St., Edmonton, Alberta.
 Mine Office: Namao, Alberta.

General Manager: William G. MacKay.
 Overman: A. Johnstone.
 Mine Surveyor: L. C. Stevens.
 Location of Mine: N.W. ¼ Sec. 36, Tp. 54, Rge. 25, W. 4th Mer.
 Thickness of Seam: 9 feet.
 Inclination of Seam: Horizontal.
 Thickness of Cover: 65 feet.
 Form of Opening: Slope. Size of Slope: 6ft. by 4ft. Depth of Slope: 380 feet.
 Located on Northern Alberta Railway; also Truck mine.

Ellerslie Collieries—Mine No. 1297

Mine Office: South Edmonton, Alberta.
 Overman: J. Hutton.
 Mine Surveyor: L. C. Stevens.
 Location of Mine: L.S. 1, Sec. 26, Tp. 51, Rge. 25, W. 4th Mer.
 Thickness of Seam: 4½ feet.
 Inclination of Seam: Horizontal.
 Thickness of Cover: 100 feet.
 Form of Opening: Slope. Size of Slope: 6ft. by 7ft. Depth of Slope: 235 feet.
 Truck mine.

Samis Collieries, Ltd.—Mine No. 1316

Name of Secretary: D. I. Samis.
 Name of Treasurer: K. E. Samis.
 Mine Office: Namao, Alberta.
 General Manager: K. E. Samis.
 Overman: E. Fawcett.
 Mine Surveyor: L. C. Stevens.
 Location of Mine: L.S. 6, Sec. 36, Tp. 54, Rge. 25, W. 4th Mer.
 Thickness of Seam: 7½ feet.
 Inclination of Seam: Horizontal.
 Thickness of Cover: 75 feet.
 Form of Opening: Slope. Size of Slope: 6ft. by 6ft. Depth of Slope: 150 feet.
 Truck mine.

Riddock & Horkulak (Twin City Coal Co.)—Mine No. 1352

Mine Office: Rabbit Hill, Alberta.
 Overman: A. H. Horkulak.
 Mine Surveyor: L. C. Stevens.
 Location of Mine: L.S. 8, Sec. 26, Tp. 51, Rge. 25, W. 4th Mer.
 Thickness of Seam: 4 feet.
 Inclination of Seam: Horizontal.
 Thickness of Cover: 100 feet.
 Form of Opening: Slope. Size of Slope: 6ft. by 6ft. Depth of Slope: 230 feet.
 Truck mine.

Red Hot Coal Co., Ltd.—Mine No. 1357

Authorized Capital: \$23,000.
 Name of President: W. Fridel.
 Names of Directors: J. Tworek, C. Bruskiewicz, S. Kubeczka, J. Gorski.
 Name of Secretary-Treasurer: J. Lang.
 Mine Office: Forest Heights, Edmonton, Alberta.
 General Manager: William Fridel.
 Mine Manager: John Thomson.
 Mine Surveyor: L. C. Stevens.
 Location of Mine: River Lot 33, Edmonton Settlement.
 Thickness of Seam: 4 ft. 6in.
 Inclination of Seam: Horizontal.
 Thickness of Cover: 180 feet.
 Form of Opening: Slope. Size of Slope: 6½ft. by 5 feet. Depth of Slope: 200 feet.
 Truck mine.

Beverly Coal Co., Ltd.—Mine No. 1366

Authorized Capital: \$20,000.
 Name of President: L. H. Davidson.
 Names of Directors: L. H. Davidson, A. V. Carlson, Thos. E. Hays.
 Name of Secretary: J. McCartney.
 Name of Treasurer: Thos. E. Hays.
 Mine Office: Beverly, Alberta.
 General Manager: L. H. Davidson.
 Mine Manager: Thomas Brown.
 Overman: J. F. Brown.
 Mine Surveyor: L. C. Stevens.
 Firebosses: A. L. Brown, W. T. Price.

Location of Mine: L.S. 6, Sec. 13, Tp. 53, Rge. 24, W. 4th Mer.
 Thickness of Seam: 4ft. 4in.
 Inclination of Seam: Horizontal.
 Thickness of Cover: 145 feet.
 Form of Opening: Vertical shaft. Size of Shaft: 14ft. by 8ft. Depth of Shaft: 145 feet.
 Truck mine.

Ottewell Coal Co.—Mine No. 1393

Same particulars as for Mine No. 91.
 Overman: W. Ottewell.
 Location of Mine: Block X N.E. $\frac{1}{4}$, Sec. 36, Tp. 52, Rge. 24, W. 4th Mer.
 Thickness of Seam: 4 $\frac{1}{2}$ feet.
 Inclination of Seam: Horizontal.
 Thickness of Cover: 85 feet.
 Form of Opening: Shaft. Size of Shaft: 8ft. by 9ft. Depth of Shaft: 85 feet.
 Truck mine.

Pine Creek Coal Co.—Mine No. 1419

Mine Office: South Edmonton, Alberta.
 Overman: Albert Williams.
 Mine Surveyor: L. C. Stevens.
 Location of Mine: L.S. 4, Sec. 25, Tp. 51, Rge. 25, W. 4th Mer.
 Thickness of Seam: 4ft. 6in.
 Inclination of Seam: Horizontal.
 Thickness of Cover: 110 feet.
 Form of Opening: Shaft. Size of Shaft: 6ft. by 6ft. Depth of Shaft: 90 feet.
 Truck mine.

Riverdale Coal Co., Ltd.—Mine No. 1463

Authorized Capital: \$10,000.
 Name of President: John Mather.
 Names of Directors: John Mather, Anne Mather.
 Name of Secretary: John Mather.
 Name of Treasurer: Anne Mather.
 Head Office: 10311 Saskatchewan Drive, Edmonton, Alberta.
 Mine Office: Nmao, Alberta.
 Overman: R. H. Mather.
 Mine Surveyor: David Jones.
 Fireboss: M. Kryskow.
 Location of Mine: N.E. cor. L.S. 14, Sec. 5, Tp. 55, Rge. 24, W. 4th Mer.
 Thickness of Seam: 5 feet.
 Inclination of Seam: Horizontal.
 Thickness of Cover: 90 feet.
 Form of Opening: Tunnel.
 Truck mine.

D. J. Gwilliam—Mine No. 1496

Mine Office: Nmao, Alberta.
 General Manager: D. J. Gwilliam.
 Overman: W. E. Williams.
 Mine Surveyor: L. C. Stevens.
 Location of Mine: L.S. 3, Sec. 6, Tp. 55, Rge. 24, W. 4th Mer.
 Thickness of Seam: 6 feet.
 Inclination of Seam: Horizontal.
 Thickness of Cover: 60 feet.
 Form of Opening: Drift. Size of Drift: 6ft. by 7ft.
 Truck mine.

K. Nimko—Mine No. 1560

Mine Office: Edmonton South, Alberta.
 Overman: K. Nimko.
 Mine Surveyor: L. C. Stevens.
 Location of Mine: L.S. 11, Sec. 25, Tp. 51, Rge. 25, W. 4th Mer.
 Thickness of Seam: 4 $\frac{1}{2}$ feet.
 Inclination of Seam: Horizontal.
 Thickness of Cover: 125 feet.
 Form of Opening: Slope. Size of Slope: 6ft. by 6ft. Depth of Slope: 145 feet.
 Truck mine.

Egg Lake Coal Co.—Mine No. 1582

Mine Office: Morinville, Alberta.
 Overman: R. O. Beaupri.
 Mine Surveyor: David Jones.
 Location of Mine: N.E. $\frac{1}{4}$, Sec. 36, Tp. 56, Rge. 26, W. 4th Mer.
 Thickness of Seam: 6 to 7 feet.

Inclination of Seam: Horizontal.
 Thickness of Cover: 11 to 16 feet.
 Stripping operations. Truck mine.

John G. Mucha—Mine No. 1594

Mine Office: Edmonton South, Alberta.
 Overman: John G. Mucha.
 Mine Surveyor: L. C. Stevens.
 Location of Mine: W. $\frac{1}{2}$ L.S. 13, Sec. 25, Tp. 51, Rge. 25, W. 4th Mer.
 Thickness of Seam: 4ft. 8in.
 Inclination of Seam: Horizontal.
 Thickness of Cover: 30 feet.
 Form of Opening: Slope. Size of Slope: 5 $\frac{1}{2}$ ft. by 6ft. Depth of Slope: 56 feet.
 Truck mine.

J. B. Starky Co., Ltd.—Mine No. 1626

Same particulars as for Mine No. 428.
 Mine Office: R.R. No 2, St. Albert, Alta.
 General Manager: J. B. Starky.
 Mine Manager: W. T. Worthington.
 Mine Surveyor: David Jones.
 Overman: James Burton.
 Firebosses: R. Devoe, F. Parobchak, S. Kendrick.
 Location of Mine: L.S. 4, Sec. 36, Tp. 54, Rge. 25, W. 4th Mer.
 Thickness of Seam: 10 feet.
 Inclination of Seam: Horizontal.
 Thickness of Cover: 70 to 85 feet.
 Form of Opening: Slope. Size of Slope: 7ft. by 7ft. Depth of Slope: 195 feet.
 N.A.R. and Truck mine.

Dickinson, Knight & Dickinson—Mine No. 1627

Mine Office: Carbondale, Alberta.
 Overman: J. Kennedy.
 Mine Surveyor: L. C. Stevens.
 Fireboss: W. Knight.
 Location of Mine: S.E. $\frac{1}{4}$, Sec. 17, Tp. 55, Rge. 24, W. 4th Mer.
 Thickness of Seam: 5ft. 10in.
 Inclination of Seam: Horizontal.
 Thickness of Cover: 65 feet.
 Truck mine.

C. F. MacLachlan—Mine No. 1632

Mine Office: Edmonton, Alberta.
 Overman: Albert Wheeler.
 Location of Mine: N. $\frac{1}{4}$ L.S. 8 and 9, Sec. 2, Tp. 53, Rge. 21, W. 4th Mer.
 Thickness of Seam: 7 feet.
 New mine in operation.

J. Camarta—Mine No. 1635

Mine Office: Morinville, Alberta.
 Overman: J. Camarta.
 Location of Mine: L.S. 1, Sec. 32, Tp. 55, Rge. 25, W. 4th Mer.
 Thickness of Seam: 7 feet.
 Inclination of Seam: Horizontal.
 New mine in operation.

D. Chiarello & Partners—Mine No. 1636

Mine Office: Legal, Alberta.
 Overman: D. Chiarello.
 Location of Mine: L.S. 11 and 14, Sec. 26, Tp. 57, Rge. 25, W. 4th Mer.
 Thickness of Seam: 4 feet.
 Stripping operation. Truck mine.

GLEICHEN AREA

Blackfoot Indians—Mine No. 72

This mine is operated on the Blackfoot Reserve by the Indians, the entire output being disposed of locally. This Reserve is south of Gleichén.
 Form of Opening: Drift.
 Truck mine.

Karl Schnepf—Mine No. 299

Mine Office: Rosebud, Alberta.
 Overman: K. J. Schnepf.
 Mine Surveyor: Gordon L. Kidd.
 Location of Mine: S. $\frac{1}{2}$ L.S. 4, Sec. 29, Tp. 26, Rge. 21, W. 4th Mer.

Thickness of Seam: 3 feet.
Inclination of Seam: Horizontal.
Thickness of Cover: 55 feet.
Form of Opening: Slope. Size of Slope:
6ft. by 6ft. Depth of Slope: 160 feet.
Truck mine.

H. Castella & Sons—Mine No. 1265

Mine Office: Standard, Alberta.
Overman: J. Castella.
Mine Surveyor: Gordon L. Kidd.
Location of Mine: L.S. 5, Sec. 11, Tp. 25,
Rge. 22, W. 4th Mer.
Thickness of Seam: 3ft. 10in.
Inclination of Seam: Horizontal.
Thickness of Cover: 80 feet.
Form of Opening: Slope. Size of Slope:
5ft. by 9ft. Depth of Slope: 110 feet.
Truck mine.

John Guincy—Mine No. 1431

Mine Office: Rosebud, Alberta.
Overman: C. J. Guincy.
Mine Surveyor: Gordon L. Kidd.
Location of Mine: L.S. 3 and 6, Sec. 29,
Tp. 26, Rge. 21, W. 4th Mer.
Thickness of Seam: 3 feet.
Inclination of Seam: Horizontal.
Thickness of Cover: 60 to 90 feet.
Form of Opening: Slope. Size of Slope:
6ft. by 6ft. Depth of Slope: 30 feet.
Truck mine.

Wm. McMillan—Mine No. 1521

Mine Office: Rosebud, Alberta.
Overman: Alex. McMillan.
Mine Surveyor: Gordon L. Kidd.
Location of Mine: L.S. 14, Sec. 20, Tp. 26,
Rge. 21, W. 4th Mer.
Thickness of Seam: 3½ feet.
Inclination of Seam: Horizontal.
Thickness of Cover: 97 feet.
Form of Opening: Slope. Size of Slope:
5ft. by 7ft. Depth of Slope: 90 feet.
Truck mine.

HALCOURT AREA

Baldwin Collieries—Mine No. 651

Mine Office: Dimsdale, Alberta.
Overman: A. Thomson.
Mine Surveyor: David Jones.
Location of Mine: L. S. 15, Sec. 35, Tp.
70, Rge. 7, W. 6th Mer.
Thickness of Seam: 2ft. 8in.
Inclination of Seam: Horizontal.
Thickness of Cover: 90 feet.
Form of Opening: Tunnel.
Truck mine.

LETHBRIDGE AREA

A. Razzolini—Mine No. 56

Mine Office: Magrath, Alberta.
Overman: Albert Razzolini.
Mine Surveyor: Gordon L. Kidd.
Location of Mine: N. ½ of S.W. ¼ L.S.
3, Sec. 7, Tp. 7, Rge. 21, W. 4th Mer.
Thickness of Seam: 2ft. 3in.
Inclination of Seam: Horizontal.
Thickness of Cover: 125 feet.
Form of Opening: Slope. Size of Slope:
5ft. by 6ft. Depth of Slope: 230 feet.
Truck mine.

George Rollingson—Mine No. 738

Mine Office: Lethbridge, Alberta.
Overman: George Rollingson.
Mine Surveyor: J. F. Hamilton.
Location of Mine: L.S. 2, Sec. 11, Tp. 8,
Rge. 22, W. 4th Mer.
Thickness of Seam: 22 inches.
Inclination of Seam: Horizontal.
Thickness of Cover: 200 feet.
Form of Opening: Drift.
Truck mine.

Forsyth, Fairbanks, Varga & File— Mine No. 1086

Mine Office: Lethbridge, Alberta.
Overman: J. Forsyth.
Mine Surveyor: J. F. Hamilton.
Location of Mine: L.S. 5, Sec. 8, Tp. 7,
Rge. 21, W. 4th Mer.
Thickness of Seam: 3½ feet.
Inclination of Seam: Horizontal.
Thickness of Cover: Up to 90 feet.
Form of Opening: Drift. Size of Drift:
6ft. by 7ft.
Truck mine.

J. C. Chester—Mine No. 1095

Mine Office: Lethbridge, Alberta.
Mine Surveyor: J. F. Hamilton.
Overman: D. J. Crabb.
Fireboss: J. Chemmotte.
Location of Mine: L.S. 9, Sec. 30, Tp. 9,
Rge. 21, W. 4th Mer.
Thickness of Seam: 4 feet.
Inclination of Seam: Horizontal.
Thickness of Cover: 300 feet.
Form of Opening: Slope. Size of Slope:
7ft. by 6ft. Depth of Slope: 257 feet.
Truck and C.P.R. mine.

Lethbridge Collieries, Ltd.—Mine No. 1263

Authorized Capital: \$1,400,000.
Name of President: S. G. Porter.
Names of Directors: C. S. Donaldson,
E. A. Lovett, Wm. Toole, E. A. Whit-
more, S. G. Porter.
Name of Secretary: Leslie Munroe.
Name of Treasurer: R. V. Maynard.
Head Office: 137 9th Avenue East, Cal-
gary, Alberta.
Mine Office, Lethbridge, Alberta.
General Manager: C. S. Donaldson.
Mine Manager: A. G. Donaldson.
Mine Surveyor: R. D. Livingstone.
Overman: F. Thackray.
Firebosses: A. Birse, W. Goodrick, O.
Krosso, S. Yorko, H. Evans, M. Boy-
chuk, C. MacAulay.
Location of Mine: L.S. 11, Sec. 30, Tp. 10,
Rge. 21, W. 4th Mer.
Thickness of Seam: 5 feet.
Inclination of Seam: Horizontal.
Thickness of Cover: 263 feet.
Form of Opening: Shaft. Size of Shaft:
9ft. by 24ft. Depth of Shaft: 263 feet.
Mine located on C.P.R.

Lethbridge Collieries, Ltd.—Mine No. 1464

Same particulars as for Mine No. 1263.
Mine Office: Lethbridge, Alberta.
Mine Manager: J. M. Davidson.
Overman: H. Tyrer.
Firebosses: D. Coutts, R. Dobson, W.
Strickland, G. Coutts, A. McColl, J.
Peta.
Location of Mine: L.S. 3, Sec. 2, Tp. 9,
Rge. 22, W. 4th Mer.
Thickness of Seam: 4 feet.
Inclination of Seam: 1 in 75 N.8°W.
Thickness of Cover: 400 feet.
Form of Opening: Shaft. Size of Shaft:
18ft. by 20ft. Depth of Shaft: 359 ft.
Mine located on C.P.R.

J. J. Hamilton Coal Co.—Mine No. 1581

Mine Office: Lethbridge, Alberta.
Mine Manager: J. J. Hamilton.
Overman: E. Tyrer.
Mine Surveyor: J. F. Hamilton.
Firebosses: D. Howell, F. Peta.
Location of Mine: L.S. 11, Sec. 24, Tp. 9,
Rge. 22, W. 4th Mer.
Thickness of Seam: 4 feet.
Inclination of Seam: 2½ N. 47°W.
Thickness of Cover: 470 feet.
Form of Opening: Shaft. Size of Shaft:
9ft. by 8ft. Depth of Shaft: 235 feet.
C.P.R. and Truck mine.

MILK RIVER AREA**Thomas Taylor—Mine No. 1301**

Mine Office: Groton, Alberta.
 Overman: Thomas Taylor.
 Mine Surveyor: J. F. Hamilton.
 Location of Mine: L.S. 10, Sec. 10, Tp. 3, Rge. 11, W. 4th Mer.
 Thickness of Seam: 4ft. 4in.
 Inclination of Seam: Horizontal.
 Thickness of Cover: 100 feet.
 Form of Opening: Slope. Size of Slope: 6ft. by 7ft. Depth of Slope: 120 feet.

J. J. Mueller—Mine No. 1380

Mine Office: Masinasin, Alberta.
 Overman: J. J. Mueller.
 Mine Surveyor: J. F. Hamilton.
 Location of Mine: W. $\frac{1}{2}$ L.S. 9, L.S. 10, Sec. 27, Tp. 2, Rge. 12, W. 4th Mer.
 Thickness of Seam: 3 feet.
 Inclination of Seam: Horizontal.
 Thickness of Cover: 6 feet.
 Stripping operation. Truck mine.

MORLEY AREA**B. Ainsley & Sons—Mine No. 1619**

Mine Office: Morley, Alberta.
 Overman: James Wilkinson.
 Mine Surveyor: Gordon L. Kidd.
 Location of Mine: Unsurveyed territory.
 Thickness of Seam: 4 to 6 feet.
 Inclination of Seam: 20° S.W.
 Thickness of Cover: 70 feet.
 Form of Opening: Slope. Size of Slope: 6ft. by 6ft. Depth of Slope: 87 feet.
 C.P.R. and Truck mine.

MOUNTAIN PARK AREA**Mountain Park Coals, Ltd.—Mine No. 282**

Authorized Capital: \$1,042,000.
 Name of President: Col. Sir Harold Mitchell.
 Names of Directors: A. N. Scott, M. Reid, T. Dickson, A. Dunn.
 Name of Sec.-Treas.: G. P. Nance.
 Head Office: Edmonton, Alberta.
 Mine Office: Mountain Park, Alberta.
 General Manager: A. N. Scott.
 Mine Manager: D. C. Hamilton.
 Mine Surveyor: Andrew Scott, Jr.
 Overmen: W. Talbot and H. Simmons.
 Firebosses: W. McDonald, R. Roome, H. Roome, J. Hutchinson, J. McMillan, J. Bulat, S. Olesky, J. Chapman.
 Location of Mine: S.E. $\frac{1}{4}$, Sec. 33, Tp. 45, Rge. 23, W. 5th Mer.
 Thickness of Seam: 25 to 30 feet.
 Inclination of Seam: 29°.
 Thickness of Cover: 250 to 800 feet.
 Form of Opening: Slope. Size of Slope: 7ft. by 10ft. Depth of Slope: 558 feet.
 Mine located on C.N.R.

Cadomin Coals, Ltd.—Mine No. 693

Authorized Capital: \$1,200,000.
 Name of President: H. R. Milner.
 Names of Directors: A. C. Emery, S. W. Field, H. Riley Jr., H. R. Milner, T. M. Burnett, J. A. McLeod.
 Name of Sec.-Treasurer: Colin Campbell.
 Head Office: 418 McLeod Bldg., Edmonton, Alberta.
 Mine Office: Cadomin, Alberta.
 General Manager: J. A. McLeod.
 Mine Manager: N. Melnyk.
 Overmen: J. Roberts, P. S. Douglas, R. Carr, A. Lister.
 Mine Surveyor: D. F. MacKinnon.
 Firebosses: F. Carty, S. Chesney, W. Driega, D. Stene Jr., F. Nickolson, S. Wilson, J. Williamson, H. McKenna.
 Location of Mine: L.S. 14, Sec. 31, Tp. 46, Rge. 23, W. 5th Mer.
 Thickness of Seam: 33 feet.
 Inclination of Seam: 60°.
 Thickness of Cover: 1 to 50 feet.

Form of Opening: Shaft. Size of Shaft: 20ft. by 12ft. Depth of Shaft: 826 feet.
 Mine located on C.N.R.

Luscar Coals, Ltd.—Mine No. 905

Authorized Capital: \$650,000.
 Name of President: Col. Sir Harold Mitchell.
 Names of Directors: M. Reid, A. N. Scott, A. Dunn, T. Dickson, G. P. Nance.
 Name of Sec.-Treas.: G. P. Nance.
 Head Office: 410 Tegler Bldg., Edmonton, Alberta.
 Mine Office: Luscar, Alberta.
 General Manager: A. N. Scott.
 Mine Manager: A. C. Hnatyshyn.
 Mine Surveyor: Andrew Scott Jr.
 Overmen: H. Evans, T. Mather, W. J. Thomas.
 Firebosses: J. Jones, R. Mitchell, J. Henderson, R. Davies, J. Hogg, R. Baker, V. Baich, P. Mahoney, W. Hughes.
 Location of Mine: L.S. 7, Sec. 23, Tp. 47, Rge. 24, W. 5th Mer.
 Thickness of Seam: 30 feet.
 Inclination of Seam: Up to 90°.
 Thickness of Cover: Varies.
 Form of Opening: Slope and Drift. Size of Slope: 11ft. by 8ft. Length of Slope: 2,500 feet. Depth of Slope: 833 feet.
 Mine on C.N.R.

NORDEGG AREA**Brazeau Collieries, Ltd.—Mine No. 256**

Authorized Capital: \$4,000,000.
 Name of President: J. A. Boyd.
 Names of Directors: John A. Boyd, J. A. Kilpatrick, W. H. Moore, M.P., George R. Cottrell, H. S. Gausby.
 Name of Sec.-Treasurer: H. S. Gausby.
 Head Office: Toronto, Ontario.
 Mine Office: Nordegg, Alberta.
 General Manager: A. D. Sturrock.
 Mine Manager: D. Shanks Sr.
 Overman: J. Touhey.
 Mine Surveyor: T. Hodson.
 Firebosses: G. Stewart, G. McQueen, R. Whyte, F. Kozmeniuik, O. Edwards, J. Henderson.
 Location of Mine: L.S. 13, Sec. 22, Tp. 40, Rge. 15, W. 5th Mer.
 Thickness of Seam: 13 feet.
 Inclination of Seam: 12 degrees.
 Thickness of Cover: 200 feet.
 Form of Opening: Slope. Size of Slope: 10ft. by 12ft. Depth of Slope: 3,400 feet.
 Mine located on C.N.R.

Brazeau Collieries, Ltd.—Mine No. 1585

Same particulars as for Mine No. 256.
 Mine Manager: A. McMullen.
 Overman: J. Hall.
 Mine Surveyor: T. Hodson.
 Firebosses: J. White, D. Duncan, H. Williams, F. Marasco.
 Location of Mine: L.S. 13, Sec. 22, Tp. 40, Rge. 15, W. 5th Mer.
 Thickness of Seam: 6 feet.
 Inclination of Seam: 12 degrees.
 Thickness of Cover: 300 feet.
 Form of Opening: Slope. Size of Slope: 6ft. by 12ft. Depth of Slope: 4,000 ft.
 Mine located on C.N.R.

PAKOWKI AREA**William Raeder—Mine No. 1318**

Mine Office: Elkwater, Alberta.
 Overman: Wm. Raeder.
 Mine Surveyor: E. Ashburner.
 Location of Mine: L.S. 7 and 10, Sec. 23, Tp. 8, Rge. 3, W. 4th Mer.
 Thickness of Seam: 5ft 6in.
 Inclination of Seam: Horizontal.
 Thickness of Cover: 200 feet.
 Form of Opening: Drift.

PEKISKO AREA**G. C. Davies—Mine No. 1516**

Mine Office: Priddis, Alberta.
 Overman: G. C. Davies.
 Mine Surveyor: R. Hamilton.
 Location of Mine: L.S. 10, Sec. 4, Tp. 22,
 Rge. 3, W. 5th Mer.
 Thickness of Seam: 3ft. 4in.
 Inclination of Seam: 12°.
 Thickness of Cover: 152 feet.
 Form of Opening: Slope. Size of Slope:
 6ft. by 6½ft. Depth of Slope: 600 ft.
 Truck mine.

E. Payne—Mine No. 1638

Mine Office: Turner Valley, Alberta.
 Location of Mine: L.S. 7, Sec. 24, Tp.
 19, Rge. 6, W. 5th Mer.
 New mine just opened; no particulars.

PEMBINA AREA**Lakeside Coals, Ltd.—Mine No. 419**

Authorized Capital: \$660,000.
 Name of President: E. A. McBain.
 Names of Directors: E. A. McBain, W.
 W. McBain, W. A. McBain.
 Name of Sec.-Treas.: W. A. McBain.
 Head Office: Edmonton, Alberta.
 Mine Office: Wabamun, Alberta.
 General Manager: Wm. Foster.
 Mine Manager: J. Viyyurka.
 Mine Surveyor: W. Foster.
 Firebosses: E. A. Bryant, J. Schimzyek,
 R. Stratton.
 Location of Mine: N. ½ Sec. 9, Tp. 53,
 Rge. 4, W. 5th Mer.
 Thickness of Seam: 7½ feet.
 Inclination of Seam: Horizontal.
 Thickness of Cover: 60 to 80 feet.
 Form of Opening: Tunnel.
 C.N.R. and Truck mine.

**Mount Royal Collieries, Ltd.—Mine
No. 1592**

Mine Office: Stony Plain, Alberta.
 Overman: R. Woods.
 Location of Mine: E. ½, Sec. 30, Tp. 52,
 Rge. 4, W. 5th Mer.
 Thickness of Seam: 20 feet.
 Inclination of Seam: Horizontal.
 Stripping operation. Truck mine.

Wm. Robinson—Mine No. 1596

Mine Office: Entwistle, Alberta.
 Overman: G. Ostertag.
 Mine Surveyor: David Jones.
 Location of Mine: L.S. 5, Sec. 34, Tp. 33,
 Rge. 7, W. 5th Mer.
 Thickness of Seam: 28 feet.
 Inclination of Seam: Horizontal.
 Stripping operation. Truck mine.

Lake Isle Coal Mine—Mine No. 1630

Mine Office: Gainford, Alberta.
 Overman: H. D. Hunt.
 Location of Mine: S.W. ¼, Sec. 31, Tp.
 53, Rge. 5, W. 5th M.
 Thickness of Seam: 8ft. 8in.
 Inclination of Seam: Horizontal.
 Thickness of Cover: 10 feet.
 Form of Opening: Strip mine.
 Truck mine.

H. H. Wright—Mine No. 1637

Mine Office: Genesee, Alberta.
 Location of Mine: L.S. 11, Sec. 33, Tp. 49,
 Rge. 2, W. 5th Mer.
 New mine just opened; no particulars.

P. J. Offroy—Mine No. 1640

Mine Office: Mulhurst, Alberta.
 Location of Mine: L.S. 4, Sec. 24, Tp. 49,
 Rge. 1, W. 5th Mer.
 New mine just opened; no particulars.

PINCHER AREA**W. B. Rhodes—Mine No. 1440**

Mine Office: Lundbreck, Alberta.
 Overman: W. B. Rhodes.

Mine Surveyor: M. H. Congdon.
 Location of Mine: L.S. 10, Sec. 26, Tp. 1,
 Rge. 2, W. 5th Mer.
 Thickness of Seam: 7 feet.
 Inclination of Seam: 70°.
 Thickness of Cover: 10 feet.
 Form of Opening: Slope. Size of Slope:
 6ft. by 7ft. Depth of Slope: 75 feet.
 Truck mine.

REDCLIFF AREA**AJax Coal Co., Ltd.—Mine No. 772**

Mine Office: Medicine Hat, Alberta.
 Overman: Neil Morrison.
 Mine Surveyor: Gordon L. Kidd.
 Location of Mine: L.S. 2, Sec. 5, Tp. 13,
 Rge. 6, W. 4th Mer.
 Thickness of Seam: 4 feet.
 Inclination of Seam: Horizontal.
 Thickness of Cover: 200 feet.
 Form of Opening: Level entry.
 C.P.R. and Truck mine.

ROCHESTER AREA**Thorhild Coai Co.—Mine No. 1517**

Authorized Capital: \$700.
 Name of Sec.-Treas.: John Libicz.
 Head Office: Box 44, Thorhild, Alberta.
 Mine Office: Thorhild, Alberta.
 Mine Manager: Mike Libicz.
 Mine Surveyor: David Jones.
 Location of Mine: Sec. 12, Tp. 60, Rge.
 21, W. 4th Mer.
 Thickness of Seam: 7 feet.
 Inclination of Seam: Flat.
 Thickness of Cover: Up to 25 feet.
 Form of Opening: Strip mining.
 Truck and C.P.R. and C.N.R. mine

North Point Coal Co., Ltd.—Mine No. 1562

Mine Office: Thorhild, Alberta.
 Overman: T. Dombroski.
 Mine Surveyor: David Jones.
 Location of Mine: L.S. 1, Sec. 11, Tp. 60,
 Rge. 21, W. 4th Mer.
 Thickness of Seam: 5½ feet.
 Inclination of Seam: Horizontal.
 Thickness of Cover: 14 feet.
 Stripping operation. Truck mine.

SAUNDERS AREA**Bighorn & Saunders Creek Collieries,
Ltd.—Mine No. 388**

Authorized Capital: \$300,000.
 Name of President: Raoul Green.
 Names of Directors: L. P. Robert, W. H.
 Pearson, Dean Harrington.
 Name of Sec.-Treasurer: A. R. Granger.
 Head Office: Blairmore, Alberta.
 Mine Office: Saunders, Alberta.
 Mine Manager: Owen Morgan.
 Overman: L. G. Gladwin.
 Mine Surveyor: Owen Morgan.
 Firebosses: R. Cowley, P. Kelly, C.
 Foster.
 Location of Mine: S.E. ¼ L.S. 9, Sec. 24,
 Tp. 40, Rge. 13, W. 5th Mer.
 Thickness of Seam: 4ft. 6in.
 Inclination of Seam: 5 to 8 degrees.
 Thickness of Cover: 500 feet.
 Form of Opening: Slope. Size of Slope:
 8ft. by 7ft. Depth of Slope: 2,300 ft.
 C.N.R. and Truck mine.

Alexo Coal Co., Ltd.—Mine No. 852

Authorized Capital: \$200,000.
 Name of President: E. F. Pullen.
 Names of Directors: E. F. Pullen, Frank
 Pullen, C. C. Clark.
 Name of Sec.-Treas.: C. C. Clark.
 Head Office: 107 Duke St., Toronto,
 Ontario.
 Mine Office: Alexo, Alberta.
 General Manager: E. F. Pullen.
 Mine Manager: R. Tennant.
 Mine Surveyor: A. McMullen.

Overman: J. Conlin.
 Firebosses: D. Williamson, R. J. Butts.
 Location of Mine: L.S. 9, Sec. 27, Tp. 40.
 Rge. 13, W. 5th Mer.
 Thickness of Seam: 5 feet.
 Inclination of Seam: 7 degrees.
 Thickness of Cover: 250 feet.
 Form of Opening: Slope. Size of Slope:
 8ft. by 12ft. Depth of Slope: 2,300 ft.
 Mine located on C.N.R.

SHEERNESS AREA

Chinook Coal Co., Ltd.—Mine No. 443
 Authorized Capital: \$30,000.
 Name of President: Claude Gallinger.
 Names of Directors: Claude Gallinger.
 Mrs. Jean Gallinger, Wilbur Gallinger.
 Name of Sec.-Treasurer: R. L. Wood.
 Mine Office: Sheerness, Alberta.
 General Manager: R. L. Wood.
 Overman: William Swanson.
 Mine Surveyor: David Jones.
 Location of Mine: L.S. 1, Sec. 12, Tp. 29,
 Rge. 13, W. 4th Mer.
 Thickness of Seam: 5 to 6 feet.
 Inclination of Seam: Horizontal.
 Thickness of Cover: 10 to 14 feet.
 Stripping operation. Mine located on
 C.N.R.

**T. G. Ironside & A. Glover—
 Mine No. 1398**
 Mine Office: Hanna, Alberta.
 Overman: T. G. Ironside.
 Mine Surveyor: David Jones.
 Location of Mine: L.S. 12, Sec. 5, Tp. 34,
 Rge. 13, W. 4th Mer.
 Thickness of Seam: 4 feet.
 Stripping operations. Truck mine.

Sheerness Coal Co., Ltd.—Mine No. 1432
 Authorized Capital: \$10,000.
 Name of President: Claude Gallinger.
 Names of Directors: C. Gallinger, Mrs.
 Jean Gallinger.
 Name of Sec.-Treasurer: R. L. Wood.
 Mine Office: Sheerness, Alberta.
 General Manager: R. L. Wood.
 Mine Surveyor: David Jones.
 Location of Mine: L.S. 5, Sec. 19, Tp. 29,
 Rge. 12, W. 4th Mer.
 Thickness of Seam: 5 feet.
 Inclination of Seam: Horizontal.
 Thickness of Cover: 10 feet.
 Stripping operation. On C.N.R.

**John Masciangelo & Partners—
 Mine No. 1553**
 Mine Office: Delia, Alberta.
 Overman: John Masciangelo.
 Mine Surveyor: David Jones.
 Location of Mine: L.S. 10, Sec. 21, Tp. 30,
 Rge. 17, W. 4th Mer.
 Thickness of Seam: 3ft. 9in.
 Inclination of Seam: Horizontal.
 Thickness of Cover: 20 to 60 feet.
 Form of Opening: Tunnel.
 Truck mine.

TABER AREA

C. J. Lavenne—Mine No. 672
 Mine Office: Bow Island, Alberta.
 Overman: C. J. Lavenne.
 Mine Surveyor: J. F. Hamilton.
 Location of Mine: L.S. 3, Sec. 27, Tp. 12,
 Rge. 10, W. 4th Mer.
 Thickness of Seam: 5ft. 6in.
 Inclination of Seam: Horizontal.
 Thickness of Cover: 135 feet.

**Continental Coal Corporation, Ltd.
 Mine No. 1334**
 Authorized Capital: \$2,000,000.
 Name of President: C. O. Stee.
 Names of Directors: N. Vincent, N. W.
 Campbell, R. Hughes.
 Name of Sec.-Treas.: G. M. Wilton.
 Mine Office: Grassy Lake, Alberta.

Mine Manager: M. G. Rhynas.
 Mine Surveyor: A. Williams.
 Location of Mine: L.S. 3 and 4, Sec. 26,
 Tp. 9, Rge. 13, W. 4th Mer.
 Thickness of Seam: 2 feet.
 Inclination of Seam: Horizontal.
 Thickness of Cover: 24 feet.
 Stripping operation. Truck mine.

Oliver Coal Mine—Mine No. 1536
 Mine Office: Taber, Alberta.
 Overman: E. Oliver.
 Mine Surveyor: J. F. Hamilton.
 Location of Mine: L.S. 2, Sec. 18, Tp. 10,
 Rge. 16, W. 4th Mer.
 Thickness of Seam: 3ft. 8in.
 Inclination of Seam: Horizontal.
 Thickness of Cover: Up to 100 feet.
 Form of Opening: Drift. Size of Drift:
 6ft. by 6ft.

Western Ventures, Ltd.—Mine No. 1609
 Authorized Capital: \$10,000.
 Name of President: L. D. M. Baxter.
 Names of Directors: W. E. Meikle, D. A.
 B. Murray, J. R. Anderson.
 Name of Sec.-Treas.: J. S. Macmillan.
 Head Office: Winnipeg, Manitoba.
 Mine Office: Lethbridge, Alberta.
 Manager: C. S. Robinson.
 Mine Surveyor: J. P. Harvey.
 Overman: J. O. C. McDonald.
 Location of Mine: Sec. 30, Tp. 10, Rge.
 16, W. 4th Mer.
 Thickness of Seam: 3 feet.
 Inclination of Seam: Horizontal.
 Thickness of Cover: 30 feet.
 Stripping operations.
 Mine located on C.P.R.

TOFIELD AREA

Emil Skarin—Mine No. 215
 Mine Office: Dodds, Alberta.
 Overman: A. Ods.
 Mine Surveyor: David Jones.
 Location of Mine: L.S. 7, Sec. 14, Tp. 49,
 Rge. 18, W. 4th Mer.
 Thickness of Seam: 3½ to 7½ feet.
 Inclination of Seam: Horizontal.
 Thickness of Cover: 19 feet.
 Stripping operations. Truck mine.

Tofield Coal Co., Ltd.—Mine No. 252
 Authorized Capital: \$100,000.
 Name of President: Claude Gallinger.
 Names of Directors: C. Gallinger, Mrs.
 Jean Gallinger.
 Name of Sec.-Treas.: Wilber Gallinger.
 Mine Office: Tofield, Alberta.
 General Manager: C. Gallinger.
 Mine Manager: Norman E. Scott.
 Mine Surveyor: David Jones.
 Fireboss: Anton Johnson.
 Location of Mine: N. ½, Sec. 26, Tp. 50,
 Rge. 19, W. 4th Mer.
 Thickness of Seam: 5 to 7 feet.
 Inclination of Seam: Horizontal.
 Thickness of Cover: 10 to 30 feet.
 C.N.R. and Truck mine.

**Black Nugget Coal Co., Ltd.—
 Mine No. 1107**
 Authorized Capital: \$20,000.
 Name of President: F. L. Irving.
 Names of Directors: F. L. Irving, Thos.
 Watt, Edw. Pierce.
 Name of Sec.-Treas.: S. H. Roe.
 Head Office: 507 McLean Building, Cal-
 gary, Alberta.
 Mine Office: Ryley, Alberta.
 General Manager: F. L. Irving.
 Mine Manager: Edw. Pierce.
 Mine Surveyor: David Jones.
 Location of Mine: L.S. 15, Sec. 11, Tp. 49,
 Rge. 18, W. 4th Mer.
 Thickness of Seam: 6 feet.
 Inclination of Seam: Horizontal.
 Thickness of Cover: 10 to 30 feet.
 Form of Opening: Open pit.
 Mine located on the C.N.R.

Ryley Coal Company—Mine No. 1206
 Names of Directors: Mike Zacarchuk,
 John Posnak, Harry Rudyk, Mike
 Komarinski.
 Mine Office: Ryley Alberta.
 Overman: J. J. McDevitt.
 Mine Surveyor: David Jones.
 Location of Mine: L.S. 8, Sec. 8, Tp. 49,
 Rge. 17, W. 4th Mer.
 Thickness of Seam: 9 to 13 feet.
 Inclination of Seam: Horizontal.
 Thickness of Cover: 14 to 21 feet.
 Form of Opening: Slope. Size of Slope:
 8ft. by 10ft. Depth of Slope: 50 feet.
 C.N.R. and Truck mine.

C. Binder—Mine No. 1624
 Mine Office: Ryley, Alberta.
 Overman: Wm. MacMillan.
 Mine Surveyor: David Jones.
 Location of Mine: L.S. 5, Sec. 9, Tp. 49,
 Rge. 14, W. 4th Mer.
 Thickness of Seam: 9ft. 9in.
 Inclination of Seam: Horizontal.
 Thickness of Cover: 20 feet.
 Form of Opening: Slope. Size of Slope:
 9ft. by 6½ft. Depth of Slope: 85 feet.
 Truck mine.

WESTLOCK AREA

Picardville Coal Co.—Mine No. 1523
 Mine Office: Picardville, Alberta.
 Overman: W. Smillie.

Mine Surveyor: David Jones.
 Location of Mine: L.S. 16, Sec. 35, Tp.
 58, Rge. 27, W. 4th Mer.
 Thickness of Seam: 5 feet.
 Inclination of Seam: Horizontal.
 Thickness of Cover: 40 feet.
 Form of Opening: Slope. Size of Slope:
 10ft. by 8ft. Depth of Slope: 135 feet.
 Truck mine.

WETASKIWIN AREA

Peter Gill—Mine No. 1534
 Mine Office: Thorsby, Alberta.
 Overman: Peter Gill.
 Mine Surveyor: L. C. Stevens.
 Location of Mine: L.S. 2 and 7, Sec. 3,
 Tp. 48, Rge. 27, W. 4th Mer.
 Thickness of Seam: 6½ feet.
 Inclination of Seam: Horizontal.
 Thickness of Cover: 100 feet.
 Form of Opening: Slope. Size of Slope:
 6ft. by 7ft. Depth of Slope: 800 feet.

NO AREA

**W. E. Doupe & E. A. Doupe—
 Mine No. 1616**
 Mine Office: Beaverlodge, Alberta.
 Fireboss: James E. Brown.
 Location of Mine: Unsurveyed territory
 —Tp. 68, Rge. 10, W. 6th Mer.
 Stripping operation.

The following table gives particulars of mines which were in operation during the year 1945 in the Province:

LIST OF MINES

Mine No.	Operator	Address	Location L.S.T.R.M.	Character of Coal	Date of	
					Opening	Aban- donment Closing
Ardley Area						
255	F. A. Straub	Alix	N.E. ¼	Sub-bituminous	1910	.....
809	J. W. Sissons	Alix	.....	Sub-bituminous	1919	.....
969	James Blades	Delburne	.....	Sub-bituminous	1921	.....
1018	Alex. J. Johnson	Ardley	.....	Sub-bituminous	1921	1945
1135	Carl Kurp	Delburne	.....	Sub-bituminous	1922	1945
1322	John Lyness	Delburne	.....	Sub-bituminous	1924	.....
1488	Charles M. Russell	Alix	.....	Sub-bituminous	1930	.....
1586	Kehl & McGladrie	Nevis	.....	Sub-bituminous	1935	.....
1605	Myers & Munro	Ardley	.....	Sub-bituminous	1942	.....
1613	Wm. Barrell and A. Auvigne	Ardley	.....	Sub-bituminous	1943	.....
Big Valley Area						
864	Big Valley Coal Company	Big Valley	.....	Sub-bituminous	1920	.....
1189	James McKinlay	Huxley	.....	Sub-bituminous	1924	.....
1254	Robert Campkin	Lousana	.....	Sub-bituminous	1927	.....
1376	Boice and Ginther	Perbeck	.....	Sub-bituminous	1931	1945
Brooks Area						
1404	Birnwel Coal, Ltd.	Eyremore	.....	Sub-bituminous	1932	.....
Camrose Area						
241	Joe Proskow	Dinant	.....	Sub-bituminous	1910	.....
610	L. Strilczyk	Ohaton	.....	Sub-bituminous	1915	1945
724	S. H. Burnstad	Ohaton	.....	Sub-bituminous	1944	.....
1420	Red Flame Coal Co., Ltd.	Round Hill	.....	Sub-bituminous	1933	.....
1524	Geo. Shute & Partners	Dinant	.....	Sub-bituminous	1937	.....
1603	Camrose Collieries, Ltd.	Camrose	.....	Sub-bituminous	1943	.....
Carbon Area						
53	Henry Dolphin & Sons	Carbon	.....	Sub-bituminous	1898	.....
384	Inland Coal Co., Ltd.	Three Hills	.....	Sub-bituminous	1906	.....
690	J. W. Ryning	Rowley	.....	Sub-bituminous	1917	.....
710	East Trochu Coal Co.	Trochu	.....	Sub-bituminous	1917	.....
817	B. Pickering	Ghost Pine Creek	.....	Sub-bituminous	1919	.....
921	E. Reissig	Trochu	.....	Sub-bituminous	1921	.....
1060	East Carbon Coal Co. (A. Fox)	Carbon	.....	Sub-bituminous	1922	.....

LIST OF MINES—Continued

Mine No.	Operator	Address	Location	LS.S.T.R.M.	Character of Coal	Date of	
						Opening	Abandonment Closing
1226	C. Campbell	Trochu	W. ½	9-29-33-23-4	Sub-bituminous	1926	
1283	Halbert Brothers	Trochu		8-14-33-23-4	Sub-bituminous	1928	
1359	Ratoh Brothers	Carbon Hills		8-13-29-23-4	Sub-bituminous	1931	
1499	N. Hall & Davidson	Three Hills		1-9-31-22-4	Sub-bituminous	1936	
1538	W. Pastorchik & Partners	Three Hills	S.E. ¼	10-9-31-22-4	Sub-bituminous	1938	
1600	Peerless Coal Co.	Carbon		2-15-29-23-4	Sub-bituminous	1943	
1621	Sarcee Coal Co.	Ghost Pine Creek		1-2-6-31-21-4	Sub-bituminous	1944	1945
1623	Alfred Fox	Ghost Pine Creek		1-14-29-23-4	Sub-bituminous	1945	
Cascade Area							
2	The Cannore Mines, Ltd.	Cannore	N.E. ¼	1-29-24-10-5	Bituminous	1891	
1244	Frank Wheatley & Sons	Banff		12-4-26-11-5	Bituminous	1926	
Castor Area							
251	John Tyrlik	Heisler	S.W. ¼	16-28-42-17-4	Sub-bituminous	1910	
289	Skaug & Bailey	Gadsby	N.W. ¼	11-28-39-16-4	Sub-bituminous	1911	1945
291	James Chiswick	Gadsby	S. ½	11-28-39-16-4	Sub-bituminous	1911	
447	Max LeGear	Forestburg		13-28-40-15-4	Sub-bituminous	1914	
615	John Sank	Heisler		8-9-28-42-17-4	Sub-bituminous	1915	
666	Killam Man. Co., Ltd.	Forestburg		16-2-41-16-4	Sub-bituminous	1916	
902	O. V. Remillard	Castor		16-33-42-17-4	Sub-bituminous	1921	
911	Strickland and Partners	Heisler		1-7-39-15-4	Sub-bituminous	1921	
913	Ben Hronek	Halkirk		6-8-43-17-4	Sub-bituminous	1921	
948	Wm. Jones & Sons	Rosalind		1-8-32-40-15-4	Sub-bituminous	1921	
953	D. H. Wiltse	Forestburg		6-20-40-15-4	Sub-bituminous	1922	
1046	J. F. Cordel	Halkirk		4-17-38-15-4	Sub-bituminous	1922	
1062	Chas. Strader	Halkirk	N.W. ¼	25-40-16-4	Sub-bituminous	1926	
1232	Davis & Gormley	Halkirk		11-8-38-15-4	Sub-bituminous	1926	1945
1237	Ruby Glow Coal Mine	Halkirk		4-38-14-4	Sub-bituminous	1926	
1240	W. T. Phillips & W. J. Phillips	Castor		2-3-29-41-17-4	Sub-bituminous	1926	
1248	Thomas Michinson	Donalda		16-26-40-16-4	Sub-bituminous	1931	1945
1349	James Bradley	Foreman		14-34-37-16-4	Sub-bituminous	1933	
1417	James Easton	Castor		6-11-2-44-19-4	Sub-bituminous	1933	
1435	E. Lien	Edberg		12-16-42-17-4	Sub-bituminous	1933	
1441	J. W. Marshall	Donalda		9-16-31-38-15-4	Sub-bituminous	1935	1945
1485	Floyd N. Wiltse	Halkirk		15-26-40-16-4	Sub-bituminous	1938	
1541	H. C. Muncy	Foreman		4-5-28-41-17-4	Sub-bituminous	1940	
1572	F. E. Wilkinson	Donalda		15-36-40-16-4	Sub-bituminous	1941	
1578	Bish Bros	Forestburg		5-22-42-17-4	Sub-bituminous	1942	
1587	J. I. Mills	Heisler		3-6-3-38-14-4	Sub-bituminous	1943	
1608	Castor Creek Collieries, Ltd.	Castor	N. & S. ½	16-26-40-16-4	Sub-bituminous	1943	
1614	Alfred Sorken	Killam		6-43-17-4	Sub-bituminous	1943	
1618	A. T. Miner	Rosalind			Sub-bituminous	1945	

1634	F. N. Wiltse	Hakirk	W. 1/2	11-32-29-15-4	Sub-bituminous	1945
1639	A. T. Miner	Rosalind		4-43-17-4	Sub-bituminous	1945
Champion Area						
136	George Rhodes	Champion		8-15-22-4	Sub-bituminous	1945
1509	A. M. S. McGaw	Champion		16-33-15-23-4	Sub-bituminous	1937
1565	Mike Popovich	Champion		9-8-16-23-4	Sub-bituminous	1939
Coalspur Area						
769	Sterling Collieries Co., Ltd.	Sterco		12-35-47-20-5	Bituminous	1918
771	Foothills Collieries, Ltd., The	Foothills		10-24-47-20-5	Bituminous	1918
775	Lakeside Coals, Ltd.	Robb		3-14-49-21-5	Bituminous	1918
846	McLeod River Hard Coal Co. (1941), Ltd.	Mercoal		5-25-48-22-5	Bituminous	1920
1002	Coal Valley Mining Co., Ltd.	Coal Valley		16-26-47-20-5	Bituminous	1922
1157	Bryan Hard Coal Co., Ltd.	Robb		11-15-49-21-5	Bituminous	1924
Crowsnest Area						
87	West Canadian Collieries, Ltd.	Bellevue		10-20-7-3-5	Bituminous	1903
88	International Coal & Coke Co., Ltd.	Coleman		11-8-8-4-5	Bituminous	1903
133	Hillcrest-Mohawk Collieries, Ltd.	Bellevue	S.E. 1/4	21-7-3-5	Bituminous	1907
199	Matt Wood	Beaver Mines		10-3-6-3-5	Bituminous	1909
204	McGillivray Creek Coal & Coke Co., Ltd.	Coleman	S.W. 1/4	2-17-8-4-5	Bituminous	1913
296	West Canadian Collieries, Ltd.	Blairmore		10-12-8-4-5	Bituminous	1913
1584	West Canadian Collieries, Ltd.	Bellevue		15-31-7-5-5	Bituminous	1942
1620	Rock Creek Coal Co.	Blairmore	W. & E. 1/2	2-3-35-7-2-5	Bituminous	1944
1623	T. O. Neumann	Fincher Creek		5-6-11-5-1-5	Bituminous	1945
Drumheller Area						
346	Rosedale Collieries, Ltd.	Rosedale		14-28-28-19-4	Sub-bituminous	1912
367	Midland Coal Mining Co., Ltd.	Drumheller		10-11-9-29-20-4	Sub-bituminous	1912
402	Red Deer Valley Coal Co., Ltd.	Drumheller	N.E. 1/4 Rd. All.	7-8-29-20-4	Sub-bituminous	1913
422	Commander Coal Company	Drumheller		5-9-29-20-4	Sub-bituminous	1914
436	Rosedale Collieries, Ltd.	Aerial	S.E. 1/4	7-28-28-19-4	Sub-bituminous	1914
620	Newcastle Collieries, Ltd.	Drumheller	N.W. 1/4	2-29-20-4	Sub-bituminous	1915
728	Maple Leaf Minerals, Ltd.	Drumheller		13-32-27-18-4	Sub-bituminous	1918
815	Ernest Denio	Drumheller	S.E. Corner	5-28-18-4	Sub-bituminous	1919
844	Ideal Coal Co., Ltd.	Wayne		13-32-27-21-4	Sub-bituminous	1920
1117	O. W. Whittraker	Beynon		16-1-28-20-4	Sub-bituminous	1920
1258	Brilliant Coal Co.	Drumheller		3-6-28-20-4	Sub-bituminous	1923
1299	Sask. Federated Co-ops., Ltd.	East Coulee		11-14-10-29-20-4	Sub-bituminous	1927
1421	Hy-Grade Coal Mining Co., Ltd.	Drumheller		2-32-27-18-4	Sub-bituminous	1929
1473	Monarch Coal Mining Co., Ltd., The	Drumheller		13-11-29-20-4	Sub-bituminous	1933
1484	Regal Coal Co., Ltd.	Drumheller		7-8-29-20-4	Sub-bituminous	1935
1491	Murray Collieries, Ltd.	Drumheller		13-21-27-18-4	Sub-bituminous	1935
1493	Western Gem & Jewel Collieries, Ltd.	Cambria		29-27-18-4	Sub-bituminous	1936
1511	Aetna Coal Company	Drumheller	S.E. 1/4	6-15-28-19-4	Sub-bituminous	1936
1515	H. S. Chambers	Willow Creek		1-22-28-18-4	Sub-bituminous	1937
1520	The Minute Coal Company	Drumheller		10-22-28-18-4	Sub-bituminous	1937
				7-14-29-20-4	Sub-bituminous	1937

LIST OF MINES—Continued

Mine No.	Operator	Address	Location	LS S.T.R.M.	Character of Coal	Date of		
						Opening	Aban- donment	Closing
1544	Castle Coal Co. Ltd.	Wayne	N.E. 1/4	16- 7-28-18-4	Sub-bituminous	1938		
1570	Sovereign Coal Co., Ltd.	Wayne		8- 7-28-19-4	Sub-bituminous	1940		
1573	Monarch Coal Mining Co., Ltd.	Drumheller		1-20-27-18-4	Sub-bituminous	1940		1945
1583	John Hamilton	Delia	N. & S. 1/2	8- 9-23-28-18-4	Sub-bituminous	1942		
1589	Arcadia Coal Mines, Ltd.	Willow Creek		16- 7-28-18-4	Sub-bituminous	1943		
1599	R. S. Chambers	Drumheller		22-28-18-4	Sub-bituminous	1943		
1601	Dumphy Coal Co.	Drumheller		6-14-29-21-4	Sub-bituminous	1943		
Edmonton Area								
29	E. Woytowich & M. Pozniak	Edmonton		11-25-51-25-4	Sub-bituminous	1897		
91	Ottewell Coal Company	Clover Bar	S.W. 1/4	17-53-23-4	Sub-bituminous	1904		
99	Great West Coal Co., Ltd.	Clover Bar		10- 7-53-23-4	Sub-bituminous	1903		
129	Sundance Mines, Ltd.	Cardiff		16-23-55-25-4	Sub-bituminous	1907		
351	Frank Chiarello	Legal	S.W. 1/4	25-57-25-4	Sub-bituminous	1912		1945
428	Banner Coals, Ltd.	Carbondale		10- 8-55-24-4	Sub-bituminous	1914		
1034	Dolinski, Yanlew and Malk	Edmonton		6-25-51-25-4	Sub-bituminous	1922		
1098	Long Coal Company	Namoo		4-31-54-24-4	Sub-bituminous	1923		
1233	Mike Sinoski	Edmonton		5-25-51-25-4	Sub-bituminous	1926		
1266	Edmonton Collieries, Ltd.	Namoo		14-36-54-25-4	Sub-bituminous	1927		
1297	Ellerslie Collieries	Ellerslie		1-26-51-25-4	Sub-bituminous	1929		
1316	Sams Collieries	Namoo		11-36-54-25-4	Sub-bituminous	1929		
1352	Twin City Coal Company	Edmonton		8-26-51-25-4	Sub-bituminous	1931		
1357	Red Hot Coal Co., Ltd.	Edmonton	R.L. 33 Edmonton	Self	Sub-bituminous	1931		
1366	Beverly Coal, Ltd.	Beverly		6-13-53-24-4	Sub-bituminous	1931		
1393	Ottewell Coal Company	Edmonton	Block X, N.E. 1/4	36-32-24-4	Sub-bituminous	1932		
1419	Opalinski & Fridel	Edmonton		4-25-51-25-4	Sub-bituminous	1933		
1427	Kent Coal Co., Ltd.	Edmonton	S.W. 1/4	30-52-23-4	Sub-bituminous	1933		
1463	Riverdale Coal Co. Ltd.	Namoo	N.E. 1/4	5-55-24-4	Sub-bituminous	1934		1945
1476	Dickinson, Knight & Dickinson	Carbondale	N.W. 1/4	9-55-24-4	Sub-bituminous	1935		
1496	D. J. Gwilliam	Namoo		3- 6-55-24-4	Sub-bituminous	1935		1945
1560	K. Nimko	Edmonton		11-25-51-25-4	Sub-bituminous	1936		
1582	Egg Lake Coal Co.	Edmonton	N.E. 1/4	11-25-51-25-4	Sub-bituminous	1939		
1594	John G. Mucha	Edmonton		13-26-56-26-4	Sub-bituminous	1941		
1626	J. B. Starky Co., Ltd.	Carbondale	S.W. 1/2	13-25-51-25-4	Sub-bituminous	1943		
1627	Dickinson, Knight & Dickinson	Carbondale	S.E. 1/4	4-36-55-25-4	Sub-bituminous	1945		
1628	Blue Point Mine	South Edmonton		17-55-24-4	Sub-bituminous	1945		
1632	C. F. MacLachlan	Edmonton		15-23-51-25-4	Sub-bituminous	1945		
1635	J. Canara	Cardiff	N. 1/4	8-9- 2-53-21-4	Sub-bituminous	1945		1945
1636	D. Chiarello, F. Chiarello, J. B. St. Martin	Legal		1-32-55-25-4	Sub-bituminous	1945		
				11-14-26-57-25-4	Sub-bituminous	1945		
Gleichen Area								
72	Blackfoot Indians	Gleichen	Indian Reserve		Sub-bituminous	1902		
299	K. J. Schnepf	Rosebud		4-29-26-21-4	Sub-bituminous	1911		
1265	Hans Castella & Sons	Standard		5-11-25-22-4	Sub-bituminous	1927		

1431	John Guiney	Rosebud	3-29-26-21-4	Sub-bituminous	1933	.....
1521	Wm. McMillan	Rosebud	14-20-26-21-4	Sub-bituminous	1937	.....
Halcourt Area						
651	Baldwin Collieries	Grande Prairie	15-35-70- 7-6	Bituminous	1916	.....
1506	Campbell & O'Reilly	Dimsdale	2-21-70- 7-6	Bituminous	1937	.....
1539	Dunn & Partners	Hinton Trail	2-21-70-10-6	Bituminous	1938	.....
1588	Dani & Coge	Halcourt	14-24-70-11-6	Bituminous	1942	.....
1591	Kovath & Fraser	Halcourt	1-21-70-10-6	Bituminous	1943	.....
1611	N. Schneider	Dimsdale	4- 5- 7-70-18-6	Bituminous	1943	.....
1633	Wm. Fraser	Halcourt	8-21-70-10-6	Bituminous	1945	.....
Highwood Area						
1625	Allied Industrials	Turner Valley	15-19- 7-5	Bituminous	1945	.....
High Prairie Area						
1567	Triangle Coal Mining Co.	High Prairie	1-28-72-20-5	Sub-bituminous	1939	.....
1615	Tissington & Shultz	High Prairie	12-27-72-20-5	Sub-bituminous	1943	.....
Lethbridge Area						
56	A. Razzolini	Magrath	3- 7- 7-21-4	Bituminous	1902	.....
738	George Rollingson	Lethbridge	5-12-32- 9-21-4	Bituminous	1909	.....
1086	Forsyth, Fairbanks, Varga & File	Lethbridge	5- 8- 7-21-4	Bituminous	1923	.....
1095	J. C. Chester	Lethbridge	9-30- 9-21-4	Bituminous	1923	.....
1219	New Royal View Mine	Lethbridge	12-29- 9-21-4	Bituminous	1925	.....
1263	Lethbridge Collieries, Ltd.	Shaughnessy	11-30-10-21-4	Bituminous	1927	.....
1464	Lethbridge Collieries, Ltd., No. 8 Mine	Lethbridge	3- 2- 9-22-4	Bituminous	1934	.....
1591	J. J. Hamilton Coal Co.	Lethbridge	11-24- 9-22-4	Bituminous	1941	.....
Milk River Area						
1301	Thos. Taylor	Groton	8-9-10-10- 4-11-4	Sub-bituminous	1929	.....
1380	J. J. Mueller	Masinasin	9-10-27- 2-12-4	Sub-bituminous	1931	.....
Morley Area						
1619	B. Ainsley	Calgary	Unsurveyed territory	Bituminous	1944	.....
Mountain Park Area						
282	Mountain Park Coals, Ltd.	Mountain Park	33-45-23-5	Bituminous	1911	.....
683	Cadomin Coal Co., Ltd.	Cadomin	14-31-46-23-5	Bituminous	1917	.....
905	Luscar Coals, Ltd.	Luscar	7-23-47-24-5	Bituminous	1921	.....
1392	K-D Collieries, Ltd.	Kaydee	8-28-47-24-5	Bituminous	1932	.....
1631	King's Coal	Cadomin	8-10-11-36-47-24-5	Bituminous	1945	.....
Nordegg Area						
256	Brazeau Collieries, Ltd.	Nordegg	13-22-40-15-5	Bituminous	1910	.....

THE MINES BRANCH

LIST OF MINES—Continued

Mine No.	Operator	Address	Location L.S.T.R.M.	Character of Coal	Date of	
					Opening	Aban- doment Closing
Pakowki Area						
602	Vogel & Rosenfelter	Little Plume	S.W. 1/4	10	Sub-bituminous	1915
1318	W. Raeder	Elkwater	S.E. 1/4	11- 2- 9- 5-4 10-23- 8- 3-4	Sub-bituminous	1929
Pekisko Area						
1516	G. C. Davies	Priddis		10- 4-22- 3-5	Bituminous	1937
1610	Ernest Payne	Calgary		7-8-30-19- 4-5	Bituminous	1943
1638	Ernest Payne	Turner Valley		7-24-19- 6-5	Bituminous	1945
Pembina Area						
419	Lakeside Coals, Ltd.	Wabamun		15- 9-53- 4-5	Sub-bituminous	1913
1409	Gainford Coal Co.	Gainford	S.E. 1/4	36-53- 6-5	Sub-bituminous	1932
1495	Pembina Collieries, Ltd.	Entwistle	N.W. 1/4	34-53- 7-5	Sub-bituminous	1936
1592	Mount Royal Collieries, Ltd.	Stony Plain	E. 1/2	30-52- 4-5	Sub-bituminous	1943
1595	Yellowknife Trans. Co., Ltd.	Genesee	S.W. Cor. N.W. 1/4	22-50- 3-5	Sub-bituminous	1943
1596	Wm. Robinson	Entwistle		5-34-53- 7-5	Sub-bituminous	1944
1630	Lake Isle Mine	Gainford		31-53- 5-5	Sub-bituminous	1945
1637	H. H. Wright	Genesee		11-33-49- 2-5	Sub-bituminous	1945
1640	P. J. Offroy	Mulhurst		4-24-49- 1-5	Sub-bituminous	1945
Pincher Area						
59	Albert Keith	Lundbreck		15-26- 7- 2-5	Bituminous	1902
1440	W. B. Rhodes	Lundbreck		10-26- 7- 2-5	Bituminous	1933
Prairie Creek Area						
1296	Jasper Coals, Ltd.	Drinnan	N.W. 1/4	18-51-24-5	Bituminous	1929
Redcliff Area						
165	Gunderson Brick & Coal Co., Ltd.	Redcliff		14- 5-13- 6-4	Sub-bituminous	1908
772	Ajax Coal Co.	Medicine Hat		2- 5-13- 6-4	Sub-bituminous	1918
Rochester Area						
1517	Thorhild Coal Co.	Thorhild		12-13-12-60-21-4	Sub-bituminous	1937
1562	Tomilson & Kaszuba	Thorhild		1-11-60-21-4	Sub-bituminous	1939

Saunders Area		Saunders Alexo	S.E. $\frac{1}{4}$ N.W. $\frac{1}{4}$	9-24-40-13-5 9-27-40-13-5	Bituminous Bituminous	1913 1920	
388 852	Bighorn & Saunders Creek Coll., Ltd. Alexo Coal Co., Ltd.						
Sheerness Area							
443 486 1314 1398 1401 1432 1553 1597 1622	Chinook Coal Co., Ltd. Litke Bros. T. E. Stubbs T. G. Ironside & A. Glover F. H. Pahl Sheerness Coal Co., Ltd. John Maciangelo & Partners Bordula & Partners Hanna T. G. Ironside	Sheerness Hanna Hanna Scapa Hanna Sheerness Della Hanna Scapa		1-12-29-13-4 6-29-32-13-4 1- 6-29-14-4 12- 5-34-13-4 7-30-32-13-4 5-19-29-12-4 10-21-30-17-4 16-12-29-13-4 7-34-33-14-4	Sub-bituminous Sub-bituminous Sub-bituminous Sub-bituminous Sub-bituminous Sub-bituminous Sub-bituminous Sub-bituminous Sub-bituminous	1914 1915 1929 1932 1932 1933 1939 1943 1944	1945 1945
Taber Area							
672 1334 1536 1604 1609	C. J. Lavenne Continental Coal Corporation, Ltd. Oliver Coal Mine Majestic Mines, Ltd. Western Ventures	Bow Island Grassy Lake Taber Taber Taber		3-27-12-10-4 4-26- 9-13-4 2-18-10-16-4 12-10-17-4 30-10-16-4	Sub-bituminous Sub-bituminous Sub-bituminous Sub-bituminous Sub-bituminous	1916 1930 1938 1943 1943	1945
Tofield Area							
215 252 1107 1206 1624	E. Skarin (Dodds Coal Mine) Tofield Coal Co., Ltd. Black Nugget Coal Co., Ltd. Ryley Coal Company C. Binder	Dodds Tofield Dodds Ryley Ryley		7-14-49-18-4 26-50-19-4 15-11-49-18-4 8- 8-49-17-4 5- 9-49-17-4	Sub-bituminous Sub-bituminous Sub-bituminous Sub-bituminous Sub-bituminous	1909 1910 1923 1925 1944	
Westlock Area							
1523	Picardville Coal Co.	Picardville		8-35-58-27-4	Sub-bituminous	1945	
Wetaskiwin Area							
1534	Peter Gill	Thorsby		2- 7- 3-48-27-4	Sub-bituminous	1938	
Whitcourt Area							
1569 1593 1612	Alex Watson A. J. Buxton R. F. Pritchard	Blueridge Blueridge Blueridge		16-24-59-11-5 12-13-19-59-10-5 13- 2-59-10-5 1-31-59-10-5	Sub-bituminous Sub-bituminous Sub-bituminous	1940 1943 1943	1945 1945 1945
No Area							
1616	Doupe & Doupe	Beaverlodge		Unsurveyed	Bituminous	1943	

INDEX

	Page
A	
Accidents, fatal, above ground	32-33
fatal, below ground	32-33
serious, above ground	32-33
serious, below ground	32-33
slight above ground	32-33
slight, below ground	32-33
total number from 1906 to 1945 (inclusive)	97
total number in each field for 1945	97
classified according to outputs	100
tons extracted according to mines producing, per	100
tons produced in sub-bituminous coal field by districts	100
tons produced in bituminous coal field by districts	100
comparison per 1,000,000 tons produced and per 1,000 men employed, 1915-1945 (inclusive)	99
description of each fatal	102
by months	103
tabulated list of total	103
tabulated and classified according to districts	104
classified in sub-bituminous fields according to cause	107-108
classified in bituminous fields according to cause	105-106
classified according to mines in sub-bituminous field	110
classified according to mines in bituminous field	109
Alberta, annual production of coal and value of same, 1886 to 1944 (inclusive) (Dominion Bureau of Statistics)	23
total importation bituminous coal, 1919 to 1945 (inclusive) (Dominion Bureau of Statistics)	27
total importation of anthracite coal, 1919 to 1945 (inclusive) (Dominion Bureau of Statistics)	28-29
mineral production, 1943 and 1944 (Dominion Bureau of Statistics)	32
bricks, total used from shale mines	32
hollow tile made	32
total sales of briquettes for consumption in	36
sub-bituminous coal sold for consumption as lump, in	49
sub-bituminous coal sold for consumption as mine-run, in	50
sub-bituminous coal sold for consumption as nut, in	51
sub-bituminous coal sold for consumption as slack, in	52
bituminous coal sold for consumption as lump, in	46
bituminous coal sold for consumption as mine-run, in	47
bituminous coal sold for consumption as nut, in	47
bituminous coal sold for consumption as slack, in	48
Annual production, Alberta, 1905 to 1945 (inclusive)	33
North-West Territories (Alberta and Saskatchewan), 1901 to 1904 (inclusive)	33
Annual consumption of Canadian coal, 1902 to 1944 (inclusive), (D.B. of S.)	24
of imported coal, 1902 to 1944 (inclusive) (D.B. of S.)	24
of imported coal, 1902 to 1944 (inclusive) (D.B. of S.)	24
coal importation, 1919 to 1945 (inclusive) (D.B. of S.)	27-29
coal importation, monthly, 1945 (D.B. of S.)	30-31
B	
Bituminous coal, importations, 1919 to 1945 (inclusive) (D.B. of S.)	27
monthly importations, 1945 (D.B. of S.)	30-31
production by districts from 1941-1945 (inclusive)	43
coal, disposition of total output by districts	37
coal, disposition of total output by months	38
total production by months during 1945	44-45
total output of coal by districts during each month	44-45
total amount of coal sold by months to railroad companies	46
lump coal for consumption in Alberta	46
mine-run coal for consumption in Alberta	47
nut coal for consumption in Alberta	47
slack coal for consumption in Alberta	48
lump coal for consumption in British Columbia	52
mine-run coal for consumption in British Columbia	53
nut coal for consumption in British Columbia	53
slack coal for consumption in British Columbia	53
lump coal for consumption in Saskatchewan	55
mine-run coal for consumption in Saskatchewan	56
nut coal for consumption in Saskatchewan	56
slack coal for consumption in Saskatchewan	57
lump coal for consumption in Manitoba	59
mine-run coal for consumption in Manitoba	59
nut coal for consumption in Manitoba	60
slack coal for consumption in Manitoba	60
lump coal for consumption in Ontario	62
mine-run coal for consumption in Ontario	62
nut coal for consumption in Ontario	63
slack coal for consumption in Ontario	63
mine-run coal for ships' bunkers	64
lump coal for consumption in United States	64
mine-run coal for consumption in United States	65
nut coal for consumption in United States	65
slack coal for consumption in United States	65
coal used under colliery boilers	66-67
coal used by colliery railroads	67
coal used making coke	68
coal used making briquettes	67
coal put to stock	68
coal lifted from stock	70
coal put on the waste heap	69

INDEX—Continued

	Page
number of mines classified according to output	71
Bituminous mines, number of men employed at Dec. 31st, 1945	72
number of men employed by districts classified as to occupation	73
total men employed each month by areas	74
per capita production for years 1910 to 1945 (inclusive)	77
per capita production by districts during 1945	79
number of days worked each month by districts	83
total shifts worked each month by districts	84-85-86-87
quantity of timber used by districts during 1945	88
particulars as to lamps used in	89
quantity of explosives used in coal	90
tons of coal produced per pound of explosives used	91
shots fired in coal in	92
miss-fires in blasting coal in	93
tons produced per accident in	99
accidents classified according to cause in	105-106-107-108
accidents classified according to mines in	109
Board of Examiners, report of	112
Bricks, output of shale used making	32
Bricks, total number sold	32
Bricks sold for use in Alberta, B.C., Saskatchewan and Manitoba	32
Briquettes, total production 1945	46
Briquettes, disposition of total output, 1945	36
British Columbia, importation bituminous coal, 1919 to 1945 (inclusive)	27
monthly importation bituminous coal, 1945	30
monthly importation anthracite coal, 1945	30
bricks shipped from shale mines to	32
sub-bituminous lump coal for consumption in	54
sub-bituminous mine-run coal for consumption in	54
sub-bituminous nut coal for consumption in	55
sub-bituminous slack coal for consumption in	55
bituminous coal for consumption in	52
bituminous mine-run coal for consumption in	53
bituminous nut coal for consumption in	53
bituminous slack coal for consumption in	53
C	
Canada, total monthly importation bituminous coal, 1945 (D.B. of S.)	30-31
total monthly importation anthracite coal, 1945 (D.B. of S.)	30-31
total importation of lignite coal, 1945 (D.B. of S.)	30-31
total monthly importation of bituminous coal, 1914-1945 (D.B. of S.)	27
Certificates issued during 1945, first class	33
issued during 1945, second class	33
issued during 1945, third class	33
issued during 1945, mine surveyors'	33
total issued to December 31st, 1945, first class	33
total issued to December 31st, 1945, second class	33
total issued to December 31st, 1945, third class	33
total issued to December 31st, 1945, mine surveyors'	33
list of first class certificates issued, 1945	112
list of holders of first class certificates, Dec. 31, 1945	113-116
list of holders of second class certificates, Dec. 31, 1945	116-123
list of holders of third class certificates, Dec. 31, 1945	123-142
list of second class certificates issued, 1945	112
list of third class certificates issued, 1945	112-113
list of mine surveyor certificates issued, 1945	113
list of holders of mine surveyors' certificates issued to Dec. 31, 1945	142-145
list of holders of mine electricians' certificates issued to Dec. 31, 1945	145-146
number of provisionals issued	33
Chief Inspector, annual report of	5-21
Classification of output, 1901 to 1945	34-35
Coal, annual production and value, 1886 to 1944	23
total production in 1945	32
mines, number in operation	32 and 147
number opened	32 and 147
number re-opened	32 and 147
number abandoned	32 and 147
number closed	32 and 147
number in operation at December 31st, 1945	32 and 147
comparison of outputs by districts	43
disposition of total output, 1945	36
sub-bituminous, disposition of total output by districts	38
sub-bituminous, disposition of total output by months	45
bituminous, disposition of total output by districts	37
bituminous, disposition of total output by months	44
bituminous, used making briquettes by months	67
bituminous, used making coke by months	68
sales by provinces from 1915 to 1945	42
total production of each class by months during 1945	44-45
total production by months during 1945	44-45
total shipments to each province, 1945	36
tonnage produced per pound of explosive used by districts in each field	91
produced per electrical horse-power used	96
cutting machinery tonnage produced by	96
Coke, total production by months	46
disposition, 1945	36
Colliery Boilers, total coal used under	5, 36, 38
sub-bituminous coal used under	36, 38, 67
bituminous coal used under	36, 37, 66
Compressed air machines and tonnage produced by	96

INDEX—Continued

	Page
D	
Days worked each month by districts, sub-bituminous field	83
each month by districts, bituminous field	82
Description of mines, by areas	159-174
Districts, names and numbers of inspectors	147
E	
Electric Lamps, Edison type	89
Wheat type	89
Wolfe Flame type	89
Koehler type	89
Wolfe Cap type	89
Electricity, number of mines using	96
number of machines operating and tonnage produced by	96
tons produced per electrical horse-power	96
amount of purchased power used	33
Employees, average number above ground	32
average number below ground	32
Examination Questions	148-158
Examinations, results of	112
Explosives, blasting coal, sub-bituminous coal field	90
blasting coal, bituminous coal field	90
quantity used blasting coal	94
F	
Fatal accidents, above ground	32
below ground	32
Farmers' Domestic Coal Permits, output, men employed, shifts worked	33
First Class Certificates, issued in 1945	112
First Class Certificates, issued to Dec. 31st, 1945	113-116
Fort Frances, importation bituminous coal, 1919 to 1945 (inclusive)	27
Fort William, importation bituminous coal, 1919 to 1945 (inclusive)	27
I	
Introduction	5-21
Importations, anthracite, 1919 to 1945 (inclusive)	28
bituminous coal, 1919 to 1945 (inclusive)	27
monthly bituminous coal, 1945	30
monthly, lignite coal, 1945	31
monthly, anthracite coal, 1945	30
total, 1945	31
coke, 1943 to 1945 (inclusive)	26
Imported coal, annual consumption of	24
Inspectors, names of and districts	147
L	
Lamps, number of Edison Cap type	89
number of Wheat Cap electric type	89
number of Wolfe Cap electric type	89
number of Wolfe Flame Cap electric type	89
number of electric type	89
number of Koehler Flame type	89
List of mines	175-181
M	
Manitoba, importation of bituminous coal	27
monthly importation of bituminous coal, 1945	30
monthly importation of anthracite coal, 1945	30
monthly importation of lignite coal, 1945	31
bricks shipped from shale mines to	32
hollow tile shipped to	32
total amount of sub-bituminous coal sold for consumption in	38
total amount of bituminous coal sold for consumption in	37
sub-bituminous coal, lump, for consumption in	61
sub-bituminous coal, mine-run, for consumption in	61
sub-bituminous coal, nut, for consumption in	61
sub-bituminous coal, slack, for consumption in	62
bituminous coal, lump, for consumption in	59
bituminous coal, mine-run, for consumption in	59
bituminous coal, nut, for consumption in	60
bituminous coal, slack, for consumption in	60
Men, average number employed above ground	32
average number employed below ground	32
employed at shale mines	32
total number employed at December 31st, 1945, in each field	72-73
employed sub-bituminous field classified according to occupation and districts	73
employed bituminous field classified according to occupation and districts	72
accidents, per 1,000 men employed	101
total employed sub-bituminous field each month by districts	75
total employed bituminous field each month by districts	74
Mineral production of Alberta, 1943-1944	32
Mine air samples	5
Mines, number classified according to output	71
number in operation	5, 32, 147
number opened	5, 32, 147
number re-opened	5, 32, 147
number abandoned	5, 32, 147
number of shale in operation	32

INDEX—Continued

	Page
N	
Number of men employed above ground (average)	32
below ground (average)	32
O	
Officials, number prosecuted	64, 111
Ontario, total importations bituminous coal, 1919 to 1945 (inclusive)	27
total importations central, 1919 to 1945 (inclusive)	27
monthly importation bituminous coal, 1945	30
monthly importation anthracite, 1945	30
total and central importation, 1945	31
total amount of sub-bituminous coal sold during each month for consumption in	38
total amount of bituminous coal sold during each month for consumption in	37
sub-bituminous coal sold for consumption as lump in	63
sub-bituminous coal sold for consumption as nut in	64
sub-bituminous coal sold for consumption as slack in	64
bituminous coal sold for consumption as lump in	62
bituminous coal sold for consumption as mine-run in	62
bituminous coal sold for consumption as nut in	63
bituminous coal sold for consumption as slack in	63
Output, North-West Territories (Alberta and Saskatchewan), 1901 to 1945 (inclusive)	33
classification of, 1901 to 1945 (inclusive)	33-34
comparison by districts, 1939 to 1944 (inclusive)	44
comparison of accidents for years 1915 to 1945, per 1,000,000 tons	99
P	
Per capita consumption of coal in Canada	24
Port Arthur, importations bituminous coal, 1919 to 1945 (inclusive)	27
Production sub-bituminous coal by districts, 1941-1945 (inclusive)	43
bituminous coal by districts, 1941-1945 (inclusive)	43
per capita, total from 1906 to 1945 (inclusive)	76
per capita, domestic, from 1910 to 1945 (inclusive)	77
per capita, sub-bituminous, from 1910 to 1945 (inclusive)	78
per capita, bituminous, from 1910 to 1945 (inclusive)	79
per capita, anthracite, from 1910 to 1923 (inclusive)	79
per capita, sub-bituminous field by districts, 1945	81
per capita, bituminous field by districts, 1945	80
of coal per electrical horse-power	96
total, 1944-1945	5, 36, 43
total disposition by provinces, 1945	36
Prosecutions for contravention of The Mines Act, number of	111
Provisional certificates issued, number of	33
R	
Railroads, total coal sold for consumption by	5, 36, 39
total amount of bituminous coal sold for consumption by	37, 40, 46
Report of board of examiners	112
Rock, explosives used in coal-mines for blasting	94
number of shots fired for blasting	95
number of miss-fire shots in blasting	95
S	
Safety lamps, number of Edison and Koehler type	89
Sales, total by provinces, 1915 to 1945 (inclusive)	42
total sub-bituminous by districts during each month	38
total bituminous by districts during each month	37
Saskatchewan, importations bituminous coal, 1919 to 1945 (inclusive)	27
monthly importations bituminous coal, 1945	30
monthly importations lignite coal, 1945	31
bricks shipped from shales mines to	32
hollow tile	32
total amount of sub-bituminous coal sold for consumption in	36
total amount of bituminous coal sold for consumption in	36
sub-bituminous coal sold as lump for consumption in	57
sub-bituminous coal sold as mine-run for consumption in	57
sub-bituminous coal sold as nut for consumption in	58
sub-bituminous coal sold as slack for consumption in	58
bituminous coal sold as lump for consumption in	55
bituminous coal sold as mine-run for consumption in	56
bituminous coal sold as nut for consumption in	56
bituminous coal sold as slack for consumption in	57
Second class certificates, issued in 1945	112
Second class certificates, issued to December 31st, 1945	116-123
Serious accidents, above ground	33
below ground	33
Shale, total production, 1945	32
number of mines in operation	5, 32
Shots, fired blasting coal in each field in districts	92
miss-fires in blasting coal in each field by districts	93
fired in blasting rock in coal-mines	94
miss-fires in blasting rock in coal-mines	95
Stock, total coal put to	5, 36
total coal lifted from	36
sub-bituminous coal put to	36, 38, 69
bituminous coal put to	36, 37, 68
sub-bituminous coal lifted from	36, 38, 71
bituminous coal lifted from	36, 37, 70
Sub-bituminous coal, disposition of total output by districts	45

INDEX—Continued

	Page
disposition of total output by months	41
production by districts from 1941-1945 (inclusive)	43
production by months during 1945	41
total output by districts during each month	41
total amount sold for consumption in Alberta	49-52
total amount sold to railroads	36-38
sold as lump for consumption in Alberta	49
sold as mine-run for consumption in Alberta	50
sold as nut for consumption in Alberta	51
sold as slack for consumption in Alberta	52
sold as lump for consumption in British Columbia	54
sold as mine-run for consumption in British Columbia	54
sold as nut for consumption in British Columbia	55
sold as slack for consumption in British Columbia	55
sold as lump for consumption in Saskatchewan	57
sold as mine-run for consumption in Saskatchewan	57
sold as nut for consumption in Saskatchewan	58
sold as slack for consumption in Saskatchewan	58
sold as lump for consumption in Manitoba	61
sold as mine-run for consumption in Manitoba	61
sold as nut for consumption in Manitoba	61
sold as slack for consumption in Manitoba	62
sold as lump for consumption in Ontario	63
sold as nut for consumption in Ontario	64
sold as slack for consumption in Ontario	64
used under colliery boilers	67
used by colliery railroads	67
put to stock	69
lifted from stock	71
put on waste heap	70
lifted from waste	71
number of mines classified according to output	71
mines, number of men employed at Dec. 31st, 1945	72
number of men employed by districts classified as to occupation	72
total men employed each month by districts	75
per capita production for years 1922 to 1945 (inclusive)	78
per capita production for year 1945	80-81
number of days worked each month by districts	82-83
number of shifts worked each month by districts	85-86-87-88
quantity of timber used by districts	88
quantity of explosives used in coal	90
tons of coal produced per pound of explosive used	91
number of shots fired blasting coal	92
number of miss-fire shots in blasting coal	93
coal, tons produced per accident	100
mines, accidents classified according to cause in	105-108
districts, accidents classified according to mines in	109-110
Summary of Statistics	32-33
T	
Third class certificates, issued in 1945	112-113
Third class certificates, issued to Dec. 31, 1945	123-142
Timber, quantity used in the sub-bituminous coal field	88
quantity used in the bituminous coal field	88
Tile, hollow, production and distribution	32
U	
United States, total amount of sub-bituminous coal sold for consumption in	36, 38, 41
total amount of bituminous coal sold for consumption in	36, 37, 40
bituminous coal, lump, sold for consumption in	64
bituminous coal, mine-run, sold for consumption in	65
bituminous coal, nut, sold for consumption in	65
bituminous coal, slack, sold for consumption in	65
sub-bituminous coal, lump, sold for consumption in	65
sub-bituminous coal, mine-run, sold for consumption in	66
sub-bituminous coal, nut, sold for consumption in	66
sub-bituminous coal, slack, sold for consumption in	66
V	
Value of annual output of Alberta coal, 1886 to 1944 (inclusive)	23
W	
Waste heap, total coal put on	5, 36
total coal lifted from	36, 39
sub-bituminous coal put on	36, 38, 41, 70
bituminous coal put on	36, 37, 40, 69
sub-bituminous coal lifted from	36, 38, 41, 71
Workmen, number prosecuted	6, 111

